

PHILADELPHIA COLLEGE OF OSTEOPATHIC MEDICINE



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Philadelphia College  
of  
Osteopathic Medicine



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# Catalog



**Philadelphia  
College of  
Osteopathic  
Medicine**





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## **Philadelphia College of Osteopathic Medicine**

### **Mission**

The mission of Philadelphia College of Osteopathic Medicine (PCOM) is to provide programs of instruction and training in the art, science, and practice of osteopathic medicine in accordance with the osteopathic concept of etiology, diagnosis, prevention and treatment. A major emphasis is placed on the education of students for primary care practice.

### **The Medical College**

Philadelphia is renowned for medical education. Among its six well-known medical colleges, only one is osteopathic. We are proud of our osteopathic heritage. The nearly 30,000 osteopathic physicians practicing today are an integral part of America's health care delivery system. PCOM trains physicians who go where they are needed, to do the job that needs to be done.

The college is the heart of the Osteopathic Medical Center of Philadelphia (OMCP). Our primary mission is to train students who will become skilled, caring, and successful physicians guided by the strengths of osteopathic principles refined during a century of medical practice, teaching, and research.

PCOM was chartered in 1899 and has graduated more than 7,600 physicians. The college founders, O.J. Snyder, DO, and Mason Pressly, DO, were outspoken, pioneering physicians who explored and taught the use of manipulative therapy in the prevention of disease long before the use of penicillin and modern drugs. Each year, Founders Day celebrates our origin as a professional school dedicated to "improved methods of the healing arts in accordance with osteopathic principles . . . and to research and the dissemination of scientific knowledge."

Today, all treatment modalities are available to osteopathic physicians who may prescribe drugs, perform surgery, and specialize in any area of medicine. DOs, whose primary care training prepares them to be superior diagnosticians, are represented throughout the United States and in all branches of military service.

As the largest of the 15 osteopathic colleges, PCOM is the flagship school of osteopathic medical education. Our total student body numbers 826 and our 100th class will graduate in 1991. Seventy percent of our students are Pennsylvanians and the remainder represent 20 states. Thirty-seven percent of the most recent class entering PCOM are women, and more than 200 colleges are represented in the student body.

Other components of our educational/health-care complex serve the teaching function as well, and major developments have enhanced training capabilities. The 424-bed acute care general hospital of the college is located on two campuses. Our teaching hospitals are equipped with magnetic resonance imaging services and a top-notch CT scanner, along with four renovated surgery suites and a new video system for teaching.

Supported by the best modern technology, PCOM emphasizes the basics, to prepare students for the practice of medicine in the twenty-first century. Each student is trained in the skills of primary care in order to treat the whole person, not merely the symptoms, and to understand the unique importance of the neuro-musculoskeletal system to health and well-being. The thorough foundation in primary care provides the base for specialty selection for those students oriented to the specialties. The educational program provides extensive opportunities for students to explore the specialty disciplines.

### **Accreditation**

Philadelphia College of Osteopathic Medicine is approved by the American Osteopathic Association upon recommendation of its Bureau of Professional Education, which is recognized by the National Commission on Accrediting. The college is a member of the American Association of Colleges of Osteopathic Medicine, which is a constituent member of the American Council on Education. The college is also accredited by the Department of Education of the Commonwealth of Pennsylvania. Documents of accreditation are on file in the President's office, with copies in the Dean's Office, and may be seen upon request. Colleges accredited by the American Osteopathic Association

- provide students with an educational program that will assure their development into competent osteopathic physicians;
- contribute to the advancement of knowledge and the development of osteopathic contributions to medicine through research programs;
- create opportunities for continuing study for the development of teachers, investigators, and physicians; and
- contribute to the community by providing distinctive health care.

### **Memberships**

Philadelphia College of Osteopathic Medicine is a member of the American Council on Education, the Association of Academic Health Centers, the American Association of Colleges of Osteopathic Medicine, and the Council for the Advancement and Support of Education.

## **Introduction to Osteopathic Medicine**

### **Definition**

As a philosophy, science and art, osteopathic medicine is a total approach to health and disease. It recognizes that the neuromusculoskeletal system is of major importance to human life. The interrelationship between this and other body systems is a basic part of osteopathic philosophy.

Osteopathic medicine is a comprehensive approach to health and disease. Its emphasis upon primary care, health maintenance, and prevention of disease and attention to the neuromusculoskeletal system are keys to its medical education

and practice. Universally accepted today, these attributes were considered unorthodox when Dr. Andrew Taylor Still (1828-1917) objected to the crude medications of his time and sought to enhance the body's inherent healing through manipulation.

Like our MD counterparts, DOs must be licensed in the states where they practice, and additional board certification in specialties further underscores their professional credentials. All 50 states and the District of Columbia provide for the unlimited practice of medicine and surgery by DOs. Licensing boards are usually composed of senior members of the osteopathic profession. In some states, MDs and DOs in concert examine applicants.

## **Philosophy**

The basic premises accepted by this profession provide the osteopathic physician with a unique way of looking at health and disease. These premises include the following:

- The human body is a unit in which structure and function are reciprocally interdependent.
- The body, through a complex system, tends to be self-regulating and self-healing.
- The adequate function of body systems depends on the unimpeded flow of blood and nerve impulses.
- The musculoskeletal system is a major body system, and its importance exceeds that of mere framework and support.
- There are musculoskeletal components to disease which are not only manifestations of the disease, but also important contributing and maintaining factors. Appropriate treatment is of significant value.

The adoption of these basic premises led to the development of the osteopathic total-body concept. The patient is considered ecologically rather than as an isolated unit. Instead of emphasizing the momentary disease state, the osteopathic approach studies and treats the person's well-being, lifestyle and behavior as a whole.

The osteopathic physician incorporates evaluation and treatment of the musculoskeletal system as a basis for an approach to health and disease, combining it with the diagnostic and therapeutic modalities used by general scientific approaches to the healing arts.

Through the American Osteopathic Association (AOA), the profession maintains its independence and its own medical schools and hospitals while cooperating with other branches of medical science. General practice is emphasized in the educational program, and a majority of graduates enter this field. However, DOs participate in all specialty and subspecialty areas of current medical practice.

## **Trustees, Administration, and Emeriti**

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Robert G. Cuzzolino, Ed.D., Assistant Dean for Educational Resources  
Kenneth Veit, D.O., Assistant Dean for Postgraduate Education  
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Caruso, Samuel L., AB, DO, MSc (Ped.), FACOP, Professor of Pediatrics  
Cathie, Ruth Waddel, DO, MSc (Path.), Professor of Pathology and  
Laboratory Medicine  
Cipolla, Vincent T., DO, Professor of Anatomy  
Cressman, Edwin H., DO, MSc (Ost.), Professor of Anatomy, Dermatology  
and Syphilology  
Denlinger, Fairman L., BS, DO, FACOOG, Professor of Obstetrics and  
Gynecology, and Director, Corporate Health Center  
Eisenberg, Lester, DO, FACOOG, Professor of Obstetrics and Gynecology  
Erwin, Robert C., DO, FACOS, Professor of Surgery  
Feldman, Israel, DO, FAOCD, Clinical Professor of Dermatology  
Fornace, Albert J., DO, FACOI, Associate Professor of Internal Medicine  
Gehman, H. Mahlon, DO, MSc (Ost.), FACOO, Professor of Ophthalmology  
Gruber, Frank E., DO, FACOOG, Professor of Obstetrics and Gynecology  
Guest, George H., DO, FACN, Professor of Psychiatry  
Heilig, David, DO, Professor of Osteopathic Principles and Practice  
Huffnagle, J. Vincent, AB, DO, Professor of General Practice  
James, Justice H., DO, Associate Professor of Pathology  
Kohn, Herman, DO, FACOS, LLD (hon.), Professor of Surgery  
Lieberman, Isadore, DO, Professor of Anesthesiology  
Lloyd, Paul T., DO, MS (OST.), FAOCR, FACOS, DSc (hon.), Professor of  
Radiological Sciences  
Mercer, Sherwood R., AB, AM, LLD (hon.), Professor of History of Medicine  
and Osteopathy  
Neifield, Martin S., DO, Clinical Professor of Otorhinolaryngology  
Nicholas, Nicholas S., DO, MSc (Ost.), Professor of Osteopathic Principles  
and Practice  
Purse, F.Munro, DO, MSc (Ped.), FACOP, Clinical Professor of Pediatrics  
Stein, Harry I., AB, DO, MSc (Oto.), FOCOO, Professor of Otorhinolaryngology  
Swift, A. Aline, DO, MSc (Ost.), Professor of Radiological Sciences  
Willis, Walter L., DO, FAOCD, Professor of Dermatology  
Young, Galen S., DO, MSc (Sur.), DSc (hon.), FACOS, FFAO, Professor of Surgery

## Calendar 1990-91

<b>First Semester</b>	August 16	First Year Class-Registration and Orientation
	August 17	First Tuition Payment Due
	August 20	First Year Class - Orientation
		Second Year Class - Registration
		First Tuition Payment Due
		Classes Begin
		Convocation
	September 3	Labor Day Holiday (no classes)
	September 15	Open House for Students, Families and Friends
	October 8-12	First Year Class - Special Topics
	October 15	First Year Class - Regular Curriculum Resumes
	November 22-25	Thanksgiving Recess
	December 12	First Semester Ends at Close of Classes
	December 13-15	Reading and Review
	December 17-21	Final Examinations
	December 22	Winter Recess Begins
<b>Second Semester</b>	January 7	Classes Begin,
		Second Tuition Payment Due
	January 25	Founders Day Assembly
	February 18	Freedom Day (no classes)
	March 2-10	Spring Recess
	March 11	Classes Resume
	March 14-15	Fourth Year Class - National Boards Part II
	March 29	Good Friday Holiday (no classes)
	May 7	Second Semester Ends at Close of Classes
	May 8-10	Reading and Review
	May 12	Third and Fourth Years End
	May 13	Fourth Year Begins
	May 13-17	Final Examinations
	May 20-24	Second Year Post Session
	May 28-June 7	Second Year Remedial Programs
	May 28	First Year Remedial Programs Begin
	June 2	Commencement
	June 13-14	Second Year Class - National Boards Part 1
	June 17	Third Year Begins



## **The Course of Study**

### **Educational Goals**

The primary educational goal of the college is to prepare students for excellence in the general practice of osteopathic medicine. The course of study is a practitioner's program with a strong emphasis on primary care, prevention, and osteopathic concepts.

Each PCOM student progresses through a uniform and comprehensive curriculum designed to achieve this goal. Elective clinical rotations expose students to specialty or subspecialty fields during training, and later they may specialize. At PCOM, students first are trained as general practitioners and thus build solid foundations for their careers. Throughout the curriculum, osteopathic concepts and methods are stressed.

Efficiency is also an educational goal, maximizing each student's learning by utilizing the most effective educational methodologies available. Innovations such as computerized tutorials, classroom videos, and simulated patient encounters, will sharpen skills as a physician. Our curriculum revision bridges old departmentalizations, joining related disciplines, such as pathology to surgery and internal medicine, so that students relate different perspectives to a variety of conditions taught in a common time frame.

Instruction is attuned to the changing demands in American health care. About 80 percent of our graduates enter primary care practice where the large majority of health problems are treated today. Our division of geriatrics, for example, was recently created because the aged represent the most rapidly growing population segment today.

### **The Basic Sciences and Preclinical Years**

The first two years lay the foundation with intense concentration on the basic sciences, anatomy, biochemistry, neuroscience, physiology, microbiology, pathology, and pharmacology. PCOM also recognizes that medical practice is more than science. Courses in bioethics and human sexuality will help the student relate well to patients, while medical law and medical economics prepare students for the complex world of private practice.

The basic sciences are complemented by clinical courses in internal medicine, surgery, neurology, psychiatry, pediatrics, OB/GYN, family medicine, rehabilitation medicine, geriatrics, radiology, and physical diagnosis. The principles and practices of osteopathic medicine are taught throughout. The second year culminates in a clinical skills week in which students pull their knowledge of clinical medicine together, refine their skills, and practice on a simulated patient.

As an early clinical experience, students are paired with a geriatric patient early in the first year. The student's responsibilities evolve from tending to the social needs of a geriatric patient to active involvement with the patient's health care as the student progresses through the curriculum.

## Clinical Education

The last two years emphasize clinical training experiences. You will be assigned clinical rotations throughout the Commonwealth of Pennsylvania and neighboring states. This unique training network comprises PCOM's own hospital, 28 affiliated hospitals, five health care centers, numerous outpatient units, and scores of physician's offices. These clinical settings become teaching arms of the college; in effect, the Commonwealth is our campus.

The program is designed to afford progressive student responsibility for all phases of patient care under the direction of experienced physicians. This includes history taking, physical examinations, daily patient rounds, lectures, conferences, and case presentations. Students rotate through services in medicine, surgery, general practice, OB/GYN, pediatrics, psychiatry, neurology, otorhinolaryngology, and office based preceptorships. On elective rotations, students may choose to pursue special interests at other medical institutions anywhere in Philadelphia or the nation.

One objective of the college is to encourage graduates to locate in Pennsylvania communities where health care services are most needed. Therefore, each student entering PCOM must be willing to accept clinical education assignments throughout the state. Course work during the third and fourth years is scheduled to minimize conflict with clinical duties and responsibilities.

During the senior year, the student spends sixteen weeks in a Health Care Center rotation. Eight weeks are in our urban clinics and eight weeks in one of several rural centers located throughout Pennsylvania and surrounding states. An alternative rural selective is offered to a limited number of students, whereby the student may select an area of alternative health care delivery or a rural area of intense medical need. In the past, students have chosen studies in India, Israel, Africa, Appalachia, and Indian Health Service sites.

During the week prior to graduation, the senior students return to campus for didactic and small group sessions in medical office management, as well as in medicolegal and ethical issues.

**Requirements for Graduation:** Each candidate for the degree of Doctor of Osteopathy (DO) must be age 21 or older, be of good moral character and have taken Parts I and II of the National Board examinations as scheduled by the Office of the Dean. Each candidate must have completed satisfactorily the program of study PCOM requires for the degree.

Each candidate for the degree must be free of indebtedness to the college. Neither the college diploma nor an academic transcript will be given until all financial obligations to PCOM have been met. Personal attendance at the commencement ceremonies conferring the degree is required of each candidate.

Matriculation and attendance at the college is a privilege granted to the student in consideration of performance of specified assignments and the maintenance of established standards of personal and professional conduct. The college reserves the right, and the student, by the act of matriculation, concedes to

the college the right to require withdrawal at any time the college deems it necessary to safeguard PCOM standards of scholarship, conduct, and compliance with regulations, or for such other reasons deemed appropriate by the college.

**Requirements for Practice:** Each recipient of the DO degree must fulfill the requirements of the state licensing board of the state in which the physician chooses to practice. These requirements vary widely and are regulated by the laws of each state.

Passing state board examinations and being licensed to practice includes the privilege of registering for practice in various other states without further examinations. Students and graduates of PCOM are also eligible for examinations of the National Board of Osteopathic Examiners.

### **The Degrees Awarded**

PCOM awards one academic doctoral degree. The Doctor of Osteopathy (DO) degree is awarded graduates who satisfactorily complete the required four-year course of study.

PCOM also awards a Master of Science (MSc) degree in various clinical specialties. The requirements of this degree are described in the section of the catalog entitled, "Postdoctoral Education," page 21.

### **Predoctoral Research**

The core curriculum requires laboratory studies which further the student's training and experience in research. Elective research training experience is also available as part of the curriculum. PCOM's own research program is coordinated by the Director of Research and the College Research Committee. Specialized laboratories, equipment, and an animal facility are available. Research funded by the college and outside agencies offers the student extra-curricular research experience as part of the work-study program.

Opportunities exist for extra-curricular research experience for all of PCOM's students. Research laboratories and equipment as well as electron microscopic, computer and animal facilities are available for this purpose. Students have the opportunity to work with faculty members on a variety of biomedical topics.

Most such research is performed between the first and second academic years. Students may be partially funded for their research efforts, based on eligibility, through college work study or external granting agencies. A compilation of faculty research projects/interests may be obtained from the Office of Admissions or the Director of Research.

### **Special Extended Curriculum**

The college is committed to supporting the students it has selected in their pursuit of the DO degree by offering assistance and alternatives when students face personal or academic difficulties. In addition to tutoring and summer remedial courses, the college offers an extended curriculum which distributes the

standard first-year course load over two years.

Based on early first year examination performance, the Dean may make the 5-year curriculum available to selected students who demonstrate academic difficulties early in their medical education.

### **DO/MBA Program**

In conjunction with Saint Joseph's University, the Master of Business Administration and Doctor of Osteopathy degrees are jointly awarded graduates who satisfactorily complete the five-year course of study required by the two institutions.

Created in 1989 as the nation's first DO/MBA degree, the curriculum requires 36 hours of MBA course work during two summer sessions and four semesters of evening classes in the joint program. This new program responds to the increasing need for business acumen in medical practice, especially group practices which are small business enterprises. It also prepares physicians for a wide range of emerging careers in medical administration business.

### **DO/MPH Program**

Students who have successfully completed their first year of study at PCOM may enter a special joint degree program in affiliation with Temple University, leading to the Master of Public Health. Like the DO/MBA program, the Master of Public Health track is a 5-year program.

The DO/MPH program specializes in community health education, and prepares physicians to serve as public health officials and to fill positions in community, government, and health care agencies. The Master of Public Health degree also prepares students for eventual specialty training and certification in occupational or environmental medicine. The DO/MPH program will be available in 1991.

## **Synopsis of Curriculum**

First Year First Term	Course	Lecture	Laboratory/ Conference	Total
	Anatomy	4	4	8
	Histology	1	1	2
	Biochemistry	5	2	7
	Emergency Medicine	1	1	2
	Human Sexuality (OB/GYN)	.5		.5
	Osteopathic Principles & Practice	1	1	2
	Total Credit Units	12.5	9	21.5

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First Year Second Term	Course	Lecture	Laboratory/ Conference	Total
	Biostatistics	1		1
	Microbiology	5	2	7
	Neuroscience	4	1	5
	Osteopathic Principles & Practice	1	1	2
	Physical Diagnosis (General Practice)	1		1
	Physiology	5	2	7
	Psychiatry	2		2
	Nutrition	1		1
	Total Credit Units	<hr/> 20	<hr/> 6	<hr/> 26

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Second Year First Term	Course	Lecture	Laboratory/ Conference	Total
	Dermatology	1		1
	Family Medicine	1		1
	Neurology	2		2
	Obstetrics and Gynecology	3		3
	Osteopathic Principles & Practice	1	1	2
	Otorhinolaryngology	2		2
	Pathology and Laboratory Medicine	5		5
	Pharmacology	6		6
	Psychiatry	1		1
	*Surgery	2		2
	Basic Clinical Skills (Multidisciplinary)		1	1
	Total Credit Units	<hr/> 24	<hr/> 2	<hr/> 26

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\*Includes divisions of General and Orthopedic Surgery.

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Second Year Second Term	Course	Lecture	Laboratory/ Conference	Total
	Anesthesiology	1		1
	Health Economics	1		1
	Geriatrics	1		1
	*Internal Medicine	8		8
	Basic Clinical Skills (Multidisciplinary)		1	1
	Law and Medical Jurisprudence	1		1
	Ophthalmology	1		1
	Osteopathic Principles & Practice		1	1
	Pathology and Laboratory Medicine	3		3
	Pediatrics	4		4
	Preventive Medicine	1		1
	Psychiatry	1		1
	Radiology	2		2
	Rehabilitation Medicine	1		1
	**Surgery	5		5
		<hr/> 30	<hr/> 2	<hr/> 32

\*Includes divisions of General/Preventive Medicine, Nephrology, Endocrinology, Cardiology, Rheumatology, Gastroenterology, Oncology, Infectious Disease, Pulmonary Medicine and Allergy/Immunology.

\*\*Includes divisions of General Surgery, Urology, Proctology, Plastic & Reconstructive Surgery, and Neurosurgery.

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Second Year Post Session	Course	Lecture	Laboratory/ Conference	Total
	Clinical Skills Training	.5	1	1.5

\* Semesters are 16 weeks in duration: all first and second year hours are expressed in semester hour equivalents.

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Third Year	Weeks	Contact Hours
Cardiology	4	240
Elective	4	240
General Practice		
Hospital	4	240
Preceptor (Rural/Urban)	4	240
Internal Medicine	4	240
Obstetrics & Gynecology	4	240
Osteopathic Principles & Practice	2	120
Otorhinolaryngology & Bronchoesophagology	4	240
Pediatrics	4	240
Psychiatry	4	240
Radiology	4	240
Rehabilitation Medicine	2	120
Surgery	4	240
Vacation	4	—
Totals	52	2880

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Fourth Year	Weeks	Contact Hours
Elective	16	960
Emergency Medicine	4	240
Health Care Center		
Rural	8	480
Urban	8	480
Internal Medicine	8	480
Surgery	4	240
Vacation	4	—
Totals	52	2880

## Postdoctoral Education

A physician's education does not end with a medical degree; it simply continues by other means. PCOM conducts postdoctoral courses and programs for the purpose of furthering the education of recent graduates of colleges of osteopathic medicine and maintaining the knowledge and skills of practicing osteopathic physicians.

## Internships and Residencies

PCOM is rapidly expanding internship and residency opportunities to serve the postgraduate education needs of PCOM graduates and those of other osteopathic colleges. By utilizing its own teaching hospitals at City Avenue and Northeast Philadelphia and through affiliations with Germantown Hospital and St. Agnes Hospital, 900 beds currently support the internship and residency training programs. Future plans project a doubling of house staff positions in PCOM's postgraduate education programs.

The college also sponsors AOA-approved college coordinated internship programs at affiliated hospitals throughout Pennsylvania, which include:

St. Joseph's Hospital-Philadelphia, PA  
 Lewistown Hospital-Lewistown, PA  
 Central Medical Center-Pittsburgh, PA  
 Community General Hospital-Reading, PA  
 Nesbitt Memorial Hospital-Kingston, PA

PCOM's residency programs are held to a high standard of clinical excellence, a commitment to teaching, and active encouragement of resident research. The college currently offers approved residency training in Anesthesiology, ENT, Neurosurgery, Ophthalmology, Orthopedic Surgery, Osteopathic Manipulative Medicine, General Practice, Internal Medicine, General Surgery, Radiology, Obstetrics/Gynecology, Pediatrics, Urology, and Podiatric Surgery. Fellowships are available in Pulmonary Medicine.

Anesthesiology '90-'91 - Approved positions 4

Dr. Leonard Becker, Program Director

ENT '90-'91 - Approved positions 8

Dr. Theodore Mauer, Program Director

Neurosurgery '90-'91 - Approved positions 2

Dr. Richard Kanoff, Program Director

Orthopedics '90-'91 - Approved positions 6

Dr. Max Stepanuk, Program Director

Ophthalmology '90-'91 - Approved positions 3

Dr. Carlo DiMarco, Program Director

Radiology '90-'91 - Approved positions 9



Dr. Robert Meals, Program Director

**Urology '90-'91** - Approved positions 6

Dr. Leonard Finkelstein, Program Director

**OB/GYN '90-'91** - Approved positions 16

Dr. Saul Jeck, Program Director

**General Surgery '90-'91** - Approved positions 7

Dr. Nicholas Pedano, Program Director

**Internal Medicine '90-'91** - Approved positions 30

Dr. John Simelaro, Program Director

**General Practice '90-'91** - Approved positions 29

Dr. John Angeloni, Program Director

### **New Programs**

#### **Positions Anticipated**

Plastic Surgery 2

Dermatology 3

Psychiatry 3

Pediatrics 8

### **Admission to Postgraduate Training**

Enrollment in the internship and residency programs at the Hospital of PCOM is competitive in order that the most qualified applicants receive the highest quality programs possible. Therefore, it is recommended that application be made at the earliest possible date preceding the annual commencement of both programs on July 1. The internship program participates in the AOA Intern Match.

The minimum requirements for admission to a rotating internship are:

(a) Graduation from a college of osteopathic medicine approved by the American Osteopathic Association. (b) A record of scholastic achievement indicative of the ability to benefit fully from a year of AOA-approved internship training.

The minimum requirements for admission to residency in one of the various specialties are: (a) Graduation from a college of osteopathic medicine approved by the American Osteopathic Association. (b) Completion of an AOA-approved internship. (c) A record of scholastic and clinical achievement indicative of the ability to benefit fully from the residency training program.

Applications for an internship or residency at the Hospital of PCOM should be addressed to: Kenneth J. Veit, DO, Assistant Dean for Postgraduate Education and Director of Medical Education, Hospital of Philadelphia College of Osteopathic Medicine, 4150 City Avenue, Philadelphia, PA 19131.

### **Clinical Master of Science Degree**

The minimum requirements for the degree of Master of Science (M.Sc.) in a clinical specialty are the following:

1. The applicant must hold a full-time residency at the Hospital of PCOM or one of its affiliated hospitals. [See the note below.]
2. The applicant must present an acceptable thesis based on original research. A detailed research project proposal must be submitted in writing for approval by the department chairman, the Dean, and the Research Committee before the work is undertaken. This proposal must accompany the admission application.
3. The prescribed program and research must be completed at a level of excellence. When the thesis is in its final form and has been approved by the department chairman, three copies must be submitted to the Dean by April 2 of the degree-granting year.
4. When all requirements are met and all necessary approvals are obtained, the Dean will recommend to the President and the Board of Trustees that the M.Sc. be granted the candidate.
5. Application for admission to the program leading to the Master of Science degree must be made to the Dean not later than September 1 of the academic year prior to the academic year in which the candidate expects to complete his or her work. Further information and an application form may be obtained from the Office of the Dean.

Note: In the case of an applicant who is in residency training at a hospital affiliated with PCOM, the following requirements pertain:

- A. The candidate and the candidate's project proposal must be approved by the appropriate department chairman and trainer of the affiliated hospital. Such approvals must accompany the admission application and project proposal.
- B. The project proposal must be reviewed and approved by the appropriate PCOM department chairman and the PCOM Research Committee prior to final approval for candidacy by the Dean.
- C. The thesis must be approved by the chairman and trainer of the affiliated hospital prior to submission to PCOM for final approval.
- D. The thesis must be approved by the appropriate PCOM department chairman and by the PCOM Research Committee prior to final approval for degree by the Dean. The final deadline for submission of the chairman-approved thesis to the Research Committee is April 1 prior to graduation.

### **Continuing Medical Education**

In order to maintain and expand the current knowledge and skills of practic-

ing osteopathic physicians, PCOM offers continuing medical education (CME) programs throughout the academic year. The college follows the guidelines of the AOA Committee on Continuing Medical Education and related criteria. Most of the programs are designed to qualify for AOA Category 1A CME credits. The college offers programs in a wide variety of clinical subjects, osteopathic therapeutics, medical office management, and other topics of importance to the practicing physician. The program includes short weekend seminars, extended programs, alumni travel-CME programs, and special intensive workshops, such as laser surgery.

Registration for any course may be limited on the basis of available seats. Registration and tuition fees, when stipulated, are payable at the time of registration and are not refundable for non-attendance. Should the college find it necessary to cancel a course, however, registration fees and/or tuition will be refunded.

All CME programs are organized under the auspices of the Department of Continuing Medical Education.

On consultation with the director, it may be possible to arrange special programs suited to the needs of the individual physician or hospital. At the discretion of the director, persons other than osteopathic physicians may, upon application, be granted permission to attend CME programs.

Requests for the CME course calendar published annually, for applications and fee/tuition schedules, and other inquiries should be addressed to: Director, Department Continuing Medical Education, PCOM, 4150 City Avenue, Philadelphia, PA 19131.

## **Faculty and Educational Facilities**

### **The Faculty of PCOM**

A highly qualified faculty of certified or board-eligible osteopathic physicians, scientists, and support staff implements the educational goals of the college, which is the second largest medical school in Pennsylvania. Our faculty members are dedicated to the singular purpose of educating students for the skilled and caring practice of osteopathic medicine, and therefore have one teaching responsibility. They do not divide their teaching time since there are no other academic programs or graduate students competing for attention. This enables the educational program to achieve a high degree of cohesion and concentration for the benefit of our students.

PCOM has 233 faculty based at our Philadelphia campuses, among whom are 206 DOs and 27 PhDs. In addition, the academic program is served by 415 practicing physician faculty across the country who provide clinical instruction at various affiliated sites as volunteer faculty. In a real sense, medical education at PCOM is carried out by the larger osteopathic family. Faculty concentration and dedication show in the teaching students receive. The appointments of faculty members will be found listed under the college departments where they serve.

## Educational Facilities

The professional resources of a city rich in medical history, achievements, and scientific advances are only 15 minutes from the main PCOM campus on City Avenue. This is the seventh site of a college that graduated its first class of two physicians in 1900. PCOM has grown steadily to become the hub of an educational/health-care complex.

**Evans Hall:** During the first two years, students receive hundreds of instructional hours in the two amphitheatres in Evans Hall that accommodate 215 students each. Both lecture halls have superb audiovisual capabilities and are equipped with state-of-the-art projection booths.

The seven levels of Evans Hall also house the college library and the president's suite. Faculty offices throughout the building are combined with laboratories where teachers, graduates, and students pursue instruction and research. The architecture incorporates the teaching of large classes with the enrichment of teacher-student relationships through the use of small library-seminar rooms.

Evans Hall is equipped with varied and sophisticated instructional media, exhibit areas, and electronic communications equipment. The ground level has a television studio and control booths for the production of color or black and white programs, and closed-circuit telecasts or videotapes. Television monitors are built into the lecture amphitheatres, laboratories, and other areas in the building. Evans Hall and the Hospital of PCOM are linked in a system capable of video-taping and telecasting surgical procedures, laboratory experiments, demonstrations and lectures.

The building was dedicated in 1973 in honor of H. Walter Evans, DO, distinguished professor of obstetrics and gynecology, and all facilities in the educational complex are specially equipped for handicapped students. Evans Hall also houses the Student Council, Creative Services comprising graphic design, photography, and video production, and the animal facility.

**O.J. Snyder Memorial Library:** Our library incorporates the newest concepts in facilities and resources. Including bound periodicals, it currently houses 63,175 volumes and subscribes to 785 medical periodicals, 109 of which are osteopathic publications.

The library services include reference, inter-library loans, photocopying, a telefacsimile facility, abstracting and indexing, MEDLINE and other computer data base services, manual bibliographic searches and in-house microfilming for all of the corporations on campus.

The audiovisual section of the main reading room contains eight booths, each accommodating up to four students. Each is equipped with a videocassette player and monitor. The projection room is equipped with an overhead screen and projectors. Also available for student use are 5,190 medical audiocassettes and players with earphones to avoid disturbing others. Students use our 1,528 video-

cassettes, 6,255 slides, 323 view master reels, 946 film strips, and microfilm (35mm) collection with a reader and printers.

The mezzanine floor contains a reading room and sections for current and bound periodicals, with carrels for individual study, in-depth research, or abstracting and indexing. A special osteopathic collection is also housed on the mezzanine floor.

The PCOM medical library has joined the networking system of the 15 medical libraries throughout Pennsylvania, known as Health Sciences Libraries Consortium. Because of our full contributing membership to the HSLC for this project, PCOM will benefit in the areas of automation, bibliographic conversion of its collection, computer-assisted instruction, medical informatics program, and other automation-related programs.

The PCOM Medical Library has also become one of the subscriber members of the PALINET/OCLC Network. With this membership and also by becoming one of the contributing full members of the HSLC, the College Library is now connected statewide for assimilation and dissemination of medical information.

Our faculty, students, interns, and residents have direct access to MEDLINE through the HSLC, allowing them to search through over 3,000 medical journals to support research and education.

A specially designed Computer Laboratory has been annexed to the library's mezzanine floor with IBM-compatible and Apple computers, terminals, and printers. A software library is also maintained and regulated from the Circulation Desk. In addition to common application programs, such as word processing, the software collection includes computer-based tutorials in basic science and clinical subjects, including patient case simulations. MEDLINE searches and searches of the shared library system of the Pennsylvania medical schools can be conducted from terminals in the Computer Laboratory.

**Anatomy Museum:** The Angus Gordon Cathie Collection located near the anatomy laboratory displays special dissections, specimens and models, and is recognized as one of the finest of its kind in the world. The museum includes both normal and pathological specimens, serial sections, dissections and mounted preparations illustrating major diseases. Among the most notable are the collections of bone specimens, human embryos, Spalteholtz preparations and models of the development of the cardiovascular system.

**Electron Microscopy:** Located on the ground floor of Evans Hall, the Electron Microscopy Laboratory has two of the most modern pieces of equipment for teaching and research. One is a scanning microscope with an attached x-ray spectrometer/analyzer providing images of the surface of bulk specimens as well as information about the elemental composition of specimens or specimen parts taken from x-ray spectra. The other is a transmission microscope that serves as the high resolution analog of the light microscope. Tissue processing and photographic capabilities are also present. The laboratory staff is involved with basic

and clinical research studies and also does diagnostic studies for the Department of Pathology.

**Moss House:** This elegant stone mansion stands at the center of the 16-acre Moss estate purchased by the college in 1957 as its present campus. It now houses College Alumni Relations and Development, Public Relations and Marketing, Psychiatry department faculty offices and Human Resources.

**Rowland Hall:** Purchased and occupied by the college in 1981, this modern five-story building has a reception area, apothecary, and out patient laboratory services on the ground floor. Rowland Hall is a combined education/patient-care facility. Along with a 500-seat classroom, it houses 80 physician's offices, bookstore, group and individual student study areas, a student lounge and fitness room, the college Financial Aid Office, and other administrative offices. It is named in honor of Dr. Thomas M. Rowland, Jr., a former president of PCOM who devoted 34 years of leadership to the college.

**The Bookstore:** The college bookstore is located on the first floor of Rowland Hall. It is a convenient source for required textbooks, and special orders for unstocked titles may be placed through the store manager. Also available are academic and office supplies along with gift items.

**The Hospital of PCOM:** The 424 bed acute care general hospital is devoted to patient care, intensive teaching, and research. It is situated on two campuses: City Avenue, adjacent to the college, and the Parkview campus, in Northeast Philadelphia. All subspecialty services are offered. The latest technologies in use include CAT scan, MRI, full imaging and invasive radiological procedures, and complete ultrasound.

Month-long rotations in PCOM's hospital and affiliated hospitals begin during the third year. Assigned to an attending service, students participate as functioning members of the health care team - morning report, rounds, all teaching and clinical conferences, and autopsies. By working closely with house staff, students learn the basics of hospital medicine and also train with both primary care physicians and sub-specialists in their offices.

Flexible elective rotations enable students to pursue subspecialty or geographical interests. Students have done rotations in Appalachia, national medical centers and third-world countries.

**Health Care Centers:** The one rural and four urban health care centers sponsored by PCOM offer unique learning opportunities. There, students deliver hands-on primary care under supervision and become intimately involved in the care of patients. The centers provide cross-cultural experiences in underserved, poor, working class, and racially different communities. The Health Care Center experience also enables students to learn the sociology and economics of the

health care system by dealing with diverse populations covered by private insurance, HMOs, and government medical assistance.

## **College Committees 1990-1991**

### **Academic Standing**

#### **Chairperson - Nicholas Pedano, D.O.**

Herbert Avart, D.O.

Robert Berger, D.O.

Domenic DeBias, Ph.D.

Tage Kvist, Ph.D.

Yu Chen Lin, Ph.D.

William Nickey, D.O.

Thomas Powell Sr., D.O.

### **Ad Hoc Strategic Plan Review Committee**

#### **Chairperson - Robert Cuzzolino, Ed.D.**

Robert Berger, D.O.

Lynn Callahan, Ph.D.

Tage Kvist, Ph.D.

Penny Contractor

### **Admissions**

#### **Chairperson - Carol A. Fox**

John Angeloni, D.O.

Laurence Belkoff, D.O.

John Bellis, D.O.

Harvey Bryant, D.O.

David Coffey, D.O.

Robert Cuzzolino, Ed.D.

Domenic DeBias, Ph.D.

Walter Ehrenfeuchter, D.O.

Stephen Fedec, D.O.

John Fernandes, D.O.

William Gilhool, D.O.

Cecil Harris, D.O.

David Heilig, D.O.

Ronald Kirschner, D.O.

Michael Mahalik, Ph.D.

Samuel Manfrey, D.O.

Anthony Minissale, D.O.  
JoAnne Pieringer, Ph.D.  
Eva Placentra-Sesso, D.O.  
Roberta Lee Powell, D.O.  
Walter Prozialeck, Ph.D.  
Michael Resnick, D.O.  
Michael Venditto, D.O.  
Student Representatives

## **Animal Care & Utilization**

### **Chairperson - Walter Prozialeck, Ph.D.**

Bruno Bromke, Ph.D.  
Thomas Duthie  
M.H.F. Friedman, Ph.D.  
Charlotte Greene, Ph.D.  
Robert Niewenhuis, Ph.D.

## **Academic Appeals**

### **Chairperson - Robert Niewenhuis, Ph.D.**

John Becher Jr., D.O.  
Carol Bortner, Ph.D.  
Carlo DiMarco, D.O.  
David Loughran, D.O.  
Burton Mark, D.O.

## **Biohazards**

### **Chairperson - Sanford Levy, Ph.D.**

Bruno Bromke, Ph.D.  
Charlotte Greene, Ph.D.  
Mervyn Kline, Ph.D.  
Richard Notzold, Ph.D.  
Walter Prozialeck, Ph.D.  
John Zond, D.O.

## **Curriculum**

### **Chairperson - John Fernandes, D.O.**

John Angeloni, D.O.  
Robert Berger, D.O.  
Oliver Bullock, D.O.  
Zenia Chernyk, D.O.



Robert Cuzzolino, Ed.D.  
Domenic DeBias, Ph.D.  
Mary DeJoseph, D.O.  
Linda Haegele, M.D.  
Ralph Kahn, D.O.  
Joseph Kenney, D.O.  
Richard Kriebel, Ph.D.  
Tage Kvist, Ph.D.  
Susan Miska, Ph.D.  
Alexander Nicholas, D.O.  
Nicholas Pedano, D.O.  
JoAnne Pieringer, Ph.D.  
John Simelaro, D.O.  
Kenneth Veit, D.O.  
Student Representative

## **Discipline**

### **Chairperson - John Simelaro, D.O.**

John Becher Jr., D.O.  
Laurence Belkoff, D.O.  
John Fernandes, D.O.  
Henry Hitner, Ph.D.  
Tage Kvist, Ph.D.  
Stephen Levine, D.O.  
Burton Mark, D.O.

## **Executive Faculty**

### **Chairperson - Daniel L. Wisely, D.O.**

John Angeloni, D.O.  
Herbert Avart, D.O.  
John Becher Jr., D.O.  
Leonard Becker, D.O.  
Robert Berger, D.O.  
Lynn Callahan, Ph.D., (Act.)  
Robert Cuzzolino, Ed.D.  
Domenic DeBias, Ph.D.  
Carlo DiMarco, D.O.  
John Fernandes, D.O.  
Leonard Finkelstein, D.O.  
Carol Fox  
Henry Hitner, Ph.D.  
Emanuel Fliegelman, D.O.

Ronald Kirschner, D.O..  
Tage Kvist, Ph.D.  
Joseph Lubeck, D.O.  
Robert Meals, D.O.  
Alexander Nicholas, D.O.  
Nicholas Pedano, D.O.  
JoAnne Pieringer, Ph.D. (Act.)  
Nancy Renzi, M.D.  
John Simelaro, D.O.  
Henry Tomkiewicz  
Christine Viola, D.O.  
Shanker Vyas, Ph.D.  
Student Representative

## **Honors & Awards**

### **Chairperson - Samuel Manfrey, D.O.**

Robert Berger, D.O.  
Henry D'Alonzo, D.O.  
Carol Fox  
Joseph Kenney, D.O.  
Mindy George-Weinstein, Ph.D.

## **Human Studies**

### **Chairperson - John Simelaro, D.O.**

Alexander Chernyk, D.O.  
Thomas Duthie  
Henry Hitner, Ph.D.  
Burton Mark, D.O.  
Ellen McPeak  
William Nickey, D.O.  
Alan Orlin  
John Zond, D.O.  
Housestaff  
Nursing

## **Implementation of Osteopathic Philosophy**

### **Chairperson - Alexander Nicholas, D.O.**

Robert Barsky, D.O.  
Philip Bell, D.O.  
David Bevan, D.O.  
Patrick Coughlin, Ph.D.

Richard Donnard, D.O.  
Charlotte Greene, Ph.D.  
David Heilig, D.O.  
Anthony Leone, D.O.

## **Learning Resources**

### **Chairperson - Lynn Callahan III, Ph.D.**

Robert Berger, D.O.  
Carol Bortner, Ph.D.  
Patrick Coughlin, Ph.D.  
Robert Cuzzolino, Ed.D.  
Leonard Finkelstein, D.O.  
Susan Miska, Ph.D.  
William Nickey, D.O.  
JoAnne Pieringer, Ph.D.  
Benjamin Rubin, Ph.D.  
Kenneth Veit, D.O.  
Shanker Vyas, Ph.D.

## **Research**

### **Chairperson - Carol Bortner, Ph.D.**

Patrick Coughlin, Ph.D.  
Domenic DeBias, Ph.D.  
Walter Ehrenfeuchter, D.O.  
Leonard Finkelstein, D.O.  
M.H.F. Friedman, Ph.D.  
Charlotte Greene, Ph.D.  
Richard Kriebel, Ph.D.  
Michael Mahalik, Ph.D.  
Bohdan Minczak, Ph.D.  
Walter Prozialeck, Ph.D.  
Leonard Rubin, Ph.D.  
Steven Snyder, D.O.  
Joseph Uri, M.D., Ph.D.

## **Student Aid**

### **Chairperson - Joseph Casee**

David Bevan, D.O.  
Carol Fox  
Aheva Oren, M.D.  
Eva Placentra-Sesso, D.O.

Rosemary Vickers, D.O.  
Student Representative

### **Ad Hoc Graduate Committee**

#### **Chairperson - Domenic DeBias, Ph.D.**

Nicholas Burdash, Ph.D.  
Norman Coffman, Ph.D.  
Tage Kvist, Ph.D.  
JoAnne Pieringer, Ph.D.

### **Ad Hoc Faculty Handbook Committee**

#### **Chairperson - Charlotte Greene, Ph.D.**

John Angeloni, D.O.  
Carol Bortner, Ph.D.  
Norman Coffman, Ph.D.  
John Fernandes, D.O.  
Yu Chin Lin, Ph.D.  
Theodore Mauer, D.O.  
Michael Venditto, D.O.  
Mindy George- Weinstein, Ph.D.

### **Admission to PCOM**

Admission to Philadelphia College of Osteopathic Medicine is competitive and selective. Acceptance by the Faculty Committee on Admissions is based on the applicant's fulfillment of undergraduate course requirements, grade point average (GPA), Medical College Admission Test (MCAT) scores, and a personal interview with the committee.

PCOM seeks the well-rounded, achievement-oriented person. The admissions committee considers contributing life experiences in non-traditional environments of the student. Acceptance as a candidate for the degree of Doctor of Osteopathy and membership in the osteopathic profession also is based on human factors that foster success in the life and work of a physician. These include breadth of education, quality of character, nature of personality, and a dedication to service.

A strong liberal arts preparation to accompany education in the sciences will be of particular benefit in developing the human factors needed to become a caring physician.

### **Undergraduate Requirements**

Prior to matriculation, each applicant should meet the following PCOM

admission requirements.

1. Satisfactory completion of four years of accredited secondary school education and a bachelor's degree from an accredited college or university are necessary. Applications from students with three years of exceptional undergraduate work completed will be considered.

2. The satisfactory completion of these specific undergraduate semester hours must be demonstrated by the applicant.

**Biology:** A minimum of eight semester hours of which two hours minimum are laboratory work. This requirement may be satisfied by eight semester hours of general biology or zoology, or by four semester hours each of zoology and botany, but not by botany alone.

**Inorganic Chemistry:** A full course of at least eight semester hours of which two hours minimum are laboratory work.

**Organic Chemistry:** A full course of at least six semester hours (one year) of which two hours minimum are laboratory work.

**Physics:** A minimum of eight semester hours of which two hours minimum are laboratory work.

**English:** A minimum of six semester hours of composition and literature.

3. Each applicant must submit MCAT scores, including previous scores if the test was taken more than once. Information about the test, which is given each spring and fall, is available from your pre-professional adviser or from American College Testing. You are urged to take the test in spring of your junior year, certainly not later than the fall of the year prior to your desired matriculation.

## Application Steps and Schedule

All inquiries about admission should be directed to PCOM's Director of Admissions. Application packets are available June 1. Each applicant is required to forward the following credentials.

1. Please submit a properly completed PCOM admission application along with the \$50 non-refundable application fee. Your application must be postmarked no later than March 1 preceding the opening of the next academic year.

2. You must submit your MCAT scores by requesting in writing that they be sent to PCOM, college code #601, and pay a \$7 fee for this service (\$9 by air express). Address: American College Testing, Medical College Admission Test, Box 451, Iowa City, IA 52240. Telephone (319) 337-1308.

3. Certified transcripts of all your pre-professional academic credits should be sent directly to PCOM's Office of Admissions by the registrar of each college or university attended.

4. A letter of recommendation should be sent directly from your pre-medical committee, pre-medical adviser, or the dean of the college granting your degree. A letter from an individual professor or major adviser will not satisfy this requirement.

5. A letter of recommendation from an osteopathic physician is strongly advised but not required, and this letter should also be sent directly to PCOM's Office of Admissions.

Early application and fulfillment of credential requirements are recommended.

PCOM does not participate in a centralized application service. You will apply directly to the Faculty Committee on Admissions who will review your full application and all supporting materials.

The committee will select those applicants to be interviewed and inform them of the interview date, time and place in writing. Though all applicants who are eventually accepted must be interviewed, the granting of an interview should not be construed as evidence of final acceptance.

### **Early Admission to PCOM**

Highly qualified candidates who make PCOM their first choice and apply exclusively to PCOM are eligible for an early acceptance decision. The qualifications and steps to be taken are the following:

1. You must have a minimum 3.10 cumulative Grade Point Average and a 3.10 science GPA. In addition, you must take the MCAT in the spring of your junior year and score seven or above in each subtest.
2. File your application, the \$50 application fee, and all supporting credentials by August 1 of the year prior to intended matriculation. (The supporting credentials required are the same as those listed above.)
3. You will sign a statement affirming that you are applying solely to PCOM and wish to be considered for an early acceptance decision. You must also agree to withhold all other applications to professional schools until you are informed of PCOM's decision on your application.

Personal interviews are held between August 15 and August 30 for qualified early admission applicants. Successful candidates will receive their letters of acceptance by Labor Day. All other early admission applicants are still eligible for admission to PCOM, and their files will be entered automatically into the applicant pool for regular consideration.

**Policy of Fairness and Equal Opportunity:** Philadelphia College of Osteopathic Medicine subscribes to the principles and laws of the Commonwealth of

Pennsylvania and the federal government pertaining to civil rights and equal opportunity, including Title IX of the 1972 Education Amendments and Section 504 of the Rehabilitation Act of 1973.

PCOM policy prohibits discrimination on the basis of age, race, color, national or ethnic origin, sex, sexual preference, religion, handicap, or marital status. This policy applies in recruitment and admission of students, employment of faculty and staff, scholarship and loan programs. This policy is also followed in the operation of all other programs, activities, and services of the college and the hospital.

Evidence of practices inconsistent with this policy should be reported to the Director of Human Resources, who is the designated coordinator of PCOM's non-discrimination program. Inquiries regarding compliance with the sex discrimination provisions of Title IX may also be directed to the Assistant Secretary for Civil Rights, Department of Education, Washington, D.C. At the state level, one can contact the State Human Relations Commission, Harrisburg, PA.

## **College Tuition and Fees**

### **Tuition Schedule 1990-91**

The Board of Trustees established the following tuition for the 1990-91 academic year. Tuition for Pennsylvania residents is \$15,078 and tuition for all other students is \$15,467. Tuition is kept as low as possible given increasing costs and declining governmental support for medical education.

Upon notification of acceptance as a student, an advance payment of \$500 is required to reserve a place in the first-year class. This advance payment will be deducted from the tuition payment due on registration day, but is not refundable in case of withdrawal.

The annual tuition is payable in two installments. One-half of the tuition is due on registration day in August, and the balance is due on the first day of the second semester for first and second-year students. For third and fourth-year students, the first tuition installment is due on the first day of the first rotation for that college year; the date for the second tuition installment is the same as for first and second year students. Tuition payments are refundable in case of withdrawal before registration.

### **Student Fees**

Each student in the first and second-year classes will be charged an annual equipment usage fee of \$100 which is due on registration day, and all first year students will pay a \$5 photography fee. All students will be charged a \$35 annual yearbook fee also payable on registration day, along with the Student Council fee of \$35.

Each candidate for the degree of Doctor of Osteopathy must pay a graduation fee of \$150 and a transcript fee of \$50. These fees charged each member of the

fourth-year class are due on the first day of their final semester.

Fees are neither returnable nor transferrable. Tuition and fees are subject to change at any time at the discretion of the Board of Trustees.

**Late Payment Charges**

If tuition and fees are not paid when due, or the physical examination is not completed as scheduled, students may be barred from classes until the registration and payments are completed. A fee of \$30 per week will be levied for unpaid tuition balances, and a \$50 fee will be levied for late registrations.

**Tuition Refund Policy**

If a student withdraws from the college due to illness or other physical disability within 60 days of making a tuition payment, a pro-rata refund may be authorized at the Dean's discretion. The student must file with the Dean's Office a written notification of intent to withdraw, supported by a physician's statement of the student's health condition. No tuition or fee monies already paid will be refunded in case of a student's dishonorable dismissal or in the event of a student's dismissal or withdrawal due to poor scholarship.

If a student chooses to withdraw for any other reason, or is granted a leave of absence during either the first or second payment period of the academic year, a tuition refund may be authorized. The effective date of withdrawal is the date on which the student filed with the Dean a written notification of withdrawal or request for a leave of absence. The allowable amount of refundable tuition is as follows:

A withdrawal within:	Percent of Refund
One week after tuition payment	75%
Second through fourth week after payment	50%
Fifth week after payment and thereafter	-0-

No fee or portion of a fee is refundable in case of a student's unauthorized withdrawal or leave of absence.

The refund policy is subject to change at the discretion of the Board of Trustees, but in no instance will such a change become retroactive.

**Microscope**

Prior to the beginning of classes, each student entering PCOM is required to secure a binocular microscope. The standard of acceptable quality is a microscope with a built-in light source, a quadruple nose piece (low or scan, 10x, highdry, and oil immersion lenses), and a 10x eyepiece. Information on microscope rental is available before the start of fall classes for incoming first-year students.



## Financial Aid

Upon acceptance, it is strongly advised that each new student contact the PCOM Office of Financial Aid as soon as possible in order to obtain the maximum aid available. At the time of registration, proof of pending financial aid must be presented in lieu of that portion of the tuition and fee payment.

## Student Loans, Scholarships and Employment

PCOM students are bright, ambitious, and determined to succeed academically. However, most need some financial aid during training, and the college makes every effort to help students meet tuition costs.

Our tuition is comparable with state supported public medical schools, making PCOM the least expensive private medical school in Pennsylvania. The college also helps the student assemble a financial aid package and offers financial planning seminars. On acceptance to PCOM, you may be eligible for a variety of financial aid programs.

### Loans and Scholarships

Information or application forms for these programs can be obtained from PCOM's Office of Financial Aid.

**Auxiliary to the American Osteopathic Association.** The auxiliary awards \$3,000 scholarships to sophomore students only. The top winner receives the Lawrence W. Mills Award in the amount of \$5,000. To be eligible, a student must be in the top 20 percent of the first-year class and demonstrate financial need, good moral character, motivation, and aptitude for the osteopathic profession. Those receiving a full scholarship from other sources are not eligible. April 15th is the application deadline. For information and an application, contact Mrs. Judie Colwell, 4376 Shire Cove Road, Hilliard, OH 43026, or PCOM's Office of Financial Aid.

**American Osteopathic Association/National Osteopathic Foundation Loans.** Loans are available to third and fourth year students demonstrating need. The interest rate is eight percent and is due over the life of the loan. An administrative fee of \$20 is charged on each loan in lieu of insurance collateral and is deducted when the loan check is issued. The maximum yearly loan is \$2,000 and the total per student may not exceed \$4,000. The four annual loan cycles are January, April, July, and October. Loans become payable two years after graduation, or three years after graduation if the recipient serves an AOA-approved internship.

**Dr. Ethel D. Allen Scholarships.** Founded with a memorial scholarship fund created by the William Penn Foundation, two scholarships of \$5,000 each are

given to first-year minority women medical students. Selection is based on financial need and academic excellence, preference being given to students from Philadelphia. The scholarships are given in memory of Ethel D. Allen, DO, PCOM class of 1963, who was elected the first black woman member of Philadelphia City Council, and served as Pennsylvania's highest ranking black woman as Secretary of the Commonwealth.

**PCOM Alumni Loan Fund.** The Alumni Association has established a fund for loans in the maximum amount of \$1,000 per academic year (depending on the availability of funds) for third and fourth year students. The loan interest rate is six percent per annum, and the application deadline is December 1st.

**Stafford Loan Program (formerly Guaranteed Student Loans).** The loans are available in the amount of \$7,500 annually with an aggregate maximum of \$54,750 (including undergraduate loans). Each applicant must demonstrate need and complete the required needs analysis. Applications may be secured from participating lending institutions.

**Supplemental Loans for Students. (SLS).** The annual maximum has been raised to \$4,000 with an aggregate maximum of \$20,000 (including undergraduate loans). Applications may be secured from participating lending institutions.

**Health Professions Student Loans/Perkins Loans (formerly National Direct Student Loans).** Loans are based on financial need and the availability of funds. These programs are administered by the PCOM Office of Financial Aid following federal guidelines.

**Health Education Assistance Loans (HEAL).** Loans are available up to \$20,000 per academic year with an aggregate maximum of \$80,000. Each academic year, an eligible applicant may borrow an amount equal to the difference between the cost of education and the amount of other financial aid. The loan is not federally subsidized, and the interest rate may not exceed the average of the bond equivalent on the 91-day Treasury Bill plus three percent. An insurance premium of eight percent is charged when the loan is processed.

**The Benjamin and Mary Siddons Measey Foundation Scholarship.** The scholarship was established to benefit medical students at PCOM. Scholarship grants are drawn annually from the \$10,000 gift. Awards are available to needy and worthy second, third, and fourth year students selected by the appropriate PCOM committee.

**Children's Memorial Scholarship Fund.** The fund has been established in memory of Gina Simelaro, Russell Tilley, and John Wynne. Scholarship recipients are selected by the appropriate PCOM committee.

## Student Employment

The professional training program is quite rigorous, and student employment during the academic year should be undertaken only when absolutely necessary.

PCOM participates in the College Work Study Program on campus. Students who are accepted for enrollment, and can demonstrate financial need as determined by the Graduate and Professional School Financial Aid Services (GAPSFAS) needs analysis, are eligible to participate. Workstudy recipients are permitted a maximum of 15 hours employment per week during the college year. During vacations, 35 hour per week work study jobs are available to qualifying students. Applications may be obtained in the Office of Student Affairs. As specified in the provisions of the Pennsylvania Unemployment Compensation Law, employment of students will not be covered by any program of unemployment compensation.

Depending on the availability of funding, a few students are also employed in research positions. These positions are not dependent on the GAPSFAS needs analysis; consequently they are a welcome resource to students whose budgeted financial need has been met from other sources. This program is also administered through the Office of Student Affairs.

In addition, a few departments and/or physician's practices hire students or their spouses on an individual basis. Arrangements for these positions are made directly through the student and the employer and are independent of the Financial Aid Program.

Learn more about the financial aid programs available to students. Ask PCOM's Office of Financial Aid, 4150 City Avenue, Philadelphia, PA 19131 for a free copy of our Student Financial Aid Handbook. Telephone (215) 871-2180.

## Student Life and Recreation

PCOM students show great enthusiasm for the activities of the college community and personal friendships. Others find the spirit on this campus extraordinary, but our students think that collegiality is the obvious way to make academic life and human relationships most enjoyable.

One clue may be the diversity of the students accepted by the college. The top three college majors among our students are biology, chemistry, and psychology. But also significantly represented are majors in mathematics, engineering, nursing, business, and religion. Some are coming to medicine after careers in other fields, and still others have a background in another allied health profession.

Student life is often viewed as an academic sidelight; our Office of Student Affairs sees it as essential to college morale and academic achievement as well as a critical element in developing the leadership and human understanding integral to the role of a well-rounded physician.

## **Student Council**

Comprised of elected representatives from each class, the council directs student activities and speaks for students to the college administration. The president is elected by the student body, regular meetings are held, and the council publishes its own newsletter. Students are respected and involved in college governance, serving on every major college committee and working with faculty to evaluate every course they take.

## **Professional and Social Societies**

Professional interests are expressed through groups like the Student Osteopathic Medical Association. Also organized are chapters of the Academy of Applied Osteopathy, the American College of General Practitioners, and the American Osteopathic Academy of Sports Medicine.

The Pediatrics, Geriatrics, Surgery Club, Emergency Medicine, OB/GYN Club, Neuropsychiatry Club, the Student National Medical Society, St. George Medical Cancer Society, and Physicians for Social Responsibility are very active clubs, along with student chapters of the Pennsylvania Osteopathic Medical Association and the Society for the Advancement of Osteopathic Medicine.

Our fraternities include Phi Sigma Gamma and Lambda Omicron Gamma.

## **Minority Affairs**

In keeping with PCOM's sensitivity to minority concerns and commitment to increased minority enrollment, we have an active chapter of the Student National Medical Association. The college organizes an annual conference for minority undergraduate students, and an awards dinner honoring the contributions of minority physicians is held each Spring.

In addition, the Summer Start program is offered to minority students accepted for admission. Two Ethel Allen Memorial Scholarships are given annually to first-year minority women students.

## **Athletic Programs**

PCOM is the only medical school in Philadelphia with its own playing field on campus. The college fields rugby, soccer, lacrosse, volleyball, softball, golf, and men's and women's basketball teams. Several professional school athletic leagues in the Delaware Valley are managed by PCOM. Intramural basketball, softball, and volleyball games can also become fierce during the school year.

## **Health Service and Insurance**

The OMCP Corporate Health Service provides routine medical care for all of our students. The costs of approved special consultations, lab work, and examinations will be submitted to the insurance plan for consideration for payment. Charges that exceed the payment made by the insurance plan or denied payments are left to the discretion of the individual department (Lab, Radiology, etc.). The student is encouraged to ASK FIRST so as not to be surprised by bills later.

In addition, students are required to carry PCOM's Blue Cross/Blue Shield Plan, (most of the plan costs paid by the college), or to provide comparable insurance of their own choice and purchase. Coverage for the student's spouse and dependents is also available through the college at the student's expense.

## **Student Housing**

The college does not provide student housing on or off campus. However, the Office of Student Affairs serves as an informal clearinghouse by maintaining an extensive list of available rental apartments and rooms in the area. The listings are not published for distribution but may be used personally anytime during office hours.

## **Educational Rights and Privacy Act**

The Family Educational Rights and Privacy Act of 1974 (FERPA) places certain limitations on the disclosure of personally identifiable student information maintained by colleges, limits access to academic records, and gives students certain rights with regard to their educational records.

Students have the right of access to their educational records, the right to obtain copies (25 cents per photocopy page), the right to seek correction of such records through informal and formal internal procedures, and the right to place a statement in such records explaining any information that the student believes to be inaccurate or misleading.

PCOM has adopted a policy on educational records consistent with the requirements of FERPA and the regulations issued under it. A copy of this policy may be obtained from the Registrar.

The college judges certain data to be "directory information" as defined by FERPA and subject to disclosure without prior consent of the student. Unless the student files a written objection, the college will treat the following as directory information: the student's name, address, telephone number, date and place of birth, major field of study, dates of attendance, degrees and awards received, and the names of the undergraduate and/or graduate schools attended. Objection to the disclosure of such information must be made in writing, signed by the student, and mailed to the Director of Student Affairs within 20 days of the date on the relevant notice sent with the PCOM summer mailing.

An official signed and sealed copy of a permanent PCOM transcript will be sent directly to another educational institution, hospital, or government agency upon written request by the student or graduate. Only unofficial copies of a transcript will be issued personally to a student or graduate.

Complaints regarding alleged violations of rights accorded students by FERPA and its regulations may be directed in writing to the Family Educational Rights and Privacy Act Office, Department of Education, Room 4511, Switzer Building, 400 Maryland Avenue, S.W., Washington, D.C. 20202.

## **Statement on Substance Abuse**

The colleges recognizes the importance of assisting students in their development of a lifestyle free from the use of illegal substances and the abuse of alcohol. The college disciplinary policy provides actions including permanent dismissal of students who engage in alcohol abuse and the use, sale, or distribution of illegal substances. The Dean may require psychological assessment or toxicological (urine) testing of any student suspected of substance abuse. As a means of preventing an impairment from progressing to the stage at which disciplinary action is necessary, the Student Assistance Board serves as a means by which students can seek confidential early assistance with an impairment. This student-faculty group serves an advocacy role, and develops recovery programs, subsidized by the college, which enable students to continue their medical education while receiving needed treatment. The Student Assistance Board also investigates reports by concerned individuals and offers an alternative to the disciplinary process for students with a detected impairment.

## **Departments**

### **Anatomy**

#### **Chairman and Professor,**

Tage N. Kvist, Ph.D.

#### **Professor and Vice Chairman,**

Robert Niewenhuis, Ph.D.

#### **Professor**

Richard Notzold, Ph.D.

### **Professors Emeriti**

Vincent T. Cipolla, D.O.

Edwin H. Cressman, D.O.

Justice H. James, D.O.

### **Associate Professors**

Richard M. Kriebel, Ph.D.

Michael F. Shank, D.O.

### **Assistant Professors**

Patrick M. Coughlin, Ph.D.

Mindy George-Weinstein, Ph.D.

**First Year****Gross Developmental Anatomy****Gross Anatomy**

The structure of the human body is studied in a systematic manner using a regional approach. The course consists of lectures and laboratory dissection with faculty instruction and supervision aided by the use of models, the Cathie Collection of human specimens, radiologic films, video tapes of human dissection and prosections. Emphasis is placed on clinical anatomical problems. Dr. R. Niewenhuis is course coordinator.

**Developmental Anatomy**

Emphasis is placed on normal human development and those features of abnormal development that are of clinical importance. The course is integrated with Gross Anatomy and designed to give students an appreciation and understanding of anatomy and related congenital anomalies. Dr. Kvist is course coordinator.

**Histology**

The cellular structure and ultrastructure of the tissues and organs that comprise the human body is studied utilizing both light and electron microscopic techniques. The course consists of both lectures and laboratory instruction, and is coordinated with an introduction to pathology presented by the Department of Pathology and Laboratory Medicine. Dr. R. Notzold is course coordinator.

**Neuroscience**

This course on the central nervous system (CNS) utilizes anatomy, physiology-pharmacology and clinical faculty. Lectures emphasize structures and functions of the brain and spinal cord and their role in normal and diseased body systems. Laboratory consists of gross and microscopic dissection and demonstration of the CNS. Focus is given to blood supply and relation of anatomical features to contemporary imaging procedures. Dr. R. Kriebel is course coordinator.

**Advanced Years****Predoctoral Electives - Third & Fourth Years**

Lectures and demonstrations. Anatomical subjects are discussed from the point of view of their application to practical problems met by the physician and surgeon. The lectures and demonstrations serve to emphasize the relationship of anatomy to the practice of osteopathic medicine and its specialties.

**Postdoctoral Studies**

Postdoctoral programs in gross anatomy and various aspects of the neuroanatomical sciences are available. Correspondence should be directed to the department chairman.

## **Anesthesiology**

### **Acting Chairman and Professor**

John Bellis, D.O.

### **Professor Emeritus**

Isadore Lieberman, D.O.

### **Professor**

Leonard Becker, D.O.

### **Associate Professors**

Peter Arino, D.O.

Carl Cross, D.O.

Thomas L. Moy, D.O.

### **Assistant Professors**

Allan Carr, D.O.

### **Instructor**

Alfred Marchetti, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Roland H. Allard, D.O.

Marvin J. Berman, D.O.

Sal Cerniglia, D.O.

Sergio Cuison, Jr., D.O.

David Drew, D.O.

Kurt Ehrenfeuchter, D.O.

Thomas Falasca, D.O.

Mark J. Foley, D.O.

Harry Glass, D.O.

Edgardo Holgado, M.D.

Donald Koenigsberg, D.O.

Richard Lamb, D.O.

Charles Leidheiser, D.O.

Harold Lightstone, D.O.

Daryl List, D.O.

Faith Scholnick, D.O.

Joseph Talarico, D.O.

Edwin Thomas, D.O.

John Todorczuk, D.O.

Daniel Wert, D.O.

William West, D.O.

## **Second Year**

### **Anesthesia I**

The course includes lectures describing the proper method of carrying a patient through the routine and emergency steps of a surgical or obstetrical procedure. All anesthetic agents in present use are reviewed, and patients are observed from the pre-operative to post-operative periods. Basic physiology,



pharmacology and fundamentals are stressed, with special emphasis placed on the interrelationship of the anesthesiologist and general practitioner.

### **Third and Fourth Years**

Students may select an elective Anesthesiology rotation in the third or fourth year.

## **Biochemistry**

### **Acting Chairman and Professor**

JoAnne Pieringer, Ph.D.

### **Professors**

Mervyn H. Kline, Ph.D.

Yu Chen Lin, Ph.D.

The department presents medical biochemistry with emphasis on the metabolic processes of the human body during health and disease.

### **First Year**

#### **Biochemistry**

Lectures, conferences, laboratories and clinical correlations. A systematic study of proteins, enzymes, bioenergetics, carbohydrates, lipids, amino acids, purines and pyrimidines, nucleic acids, cellular biochemistry, muscle biochemistry, neurobiochemistry, immunobiochemistry, endocrine biochemistry, aging biochemistry, cancer biochemistry, nutritional biochemistry and acid-base balance. The class is divided into sections for laboratory instruction and conferences.

### **Advanced Work**

Seminars and research in biochemistry as arranged.

## **Dermatology**

### **Chairman and Professor**

Stephen M. Purcell, D.O.

### **Professors Emeriti**

Edwin H. Cressman, D.O.

Walter L. Willis, D.O.

Israel Feldman, D.O.

**Associate Professors**

Herbert Fletman, D.O.  
Lawrence Paolini, D.O.

**Instructors**

Harold Milstein, M.D.  
Stephen Schleicher, M.D.

The following faculty actively participate in our program of clinical education at off-campus sites:

Anthony V. Benedetto, D.O.  
Andrew Corcoran, D.O.  
Lorraine Finelli, D.O.

Marc Levin, D.O.  
Alex S. Macaione, D.O.  
E.F. Ryan, Jr., D.O.

**Second Year****Dermatology**

This lecture course aims to prepare the general practitioner in the diagnosis and management of cutaneous diseases. All of the common eruptive diseases are discussed and shown by means of color slides. Diseases are presented visually with all of their characteristics and variations. The student will learn the use of topical therapy, prescription writing, and the special diagnostic and therapeutic procedures.

**Third and Fourth Years**

Clinical teaching takes place at the outpatient service centers. Regular conferences are held each week at the Hospital of PCOM. Cases that present interesting problems are selected for these conferences.

**Emergency Medicine****Professor and Chairman**

John W. Becher, Jr., D.O.

**Associate Professors**

Steven J. Parrillo, D.O.  
Edward J. Sarama D.O.  
Victor J. Scali, D.O.  
Robert Sing, D.O.

**Instructors**

Kevin Corcoran, D.O.  
Theodore Spevack, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Harris Baderak, D.O.  
Robert Beyer, D.O.  
Louise Caudullo, D.O.  
Elsie Chu, M.D.  
Michael Cone, D.O.  
James DeAngelis, D.O.  
Carlo DeAugustine, D.O.  
Robert Dinwoodie, D.O.  
Anthony DiPasquale, D.O.  
Kenneth Doroski, D.O.  
Henry Dubiel, D.O.  
Ronald J. Ellis, D.O.  
Steven Evans, D.O.  
Harold Feiler, D.O.  
James Flowers, D.O.  
Joan Gable, D.O.  
Dennis M. Guest, D.O.  
Anthony Iaccarino, D.O.

Joseph Kuchinski, D.O.  
Robert Linkenheimer, D.O.  
Anthony Mangiaracina, D.O.  
Russell Mazda, D.O.  
Robert McAndrew, D.O.  
Steven Mifsud, D.O.  
Daniel Oberdick, D.O.  
John Reilly, D.O.  
Stephen Roda, D.O.  
Mark Rosenberg, D.O.  
Edward Schrieber, D.O.  
Brian Silverman, D.O.  
Eileen Singer, D.O.  
Gregory Smolin, D.O.  
Joseph W. Stella, D.O.  
Hal Tucker, D.O.  
Leonard Ulan, D.O.  
Thomas Ziemba, D.O.

## **First Year**

### **Emergency Medicine**

This course will train and certify all students in Basic Cardiac Life Support and Emergency Medical Technician skills. Successful completion of the course will provide students with a mechanism for certification as Emergency Medical Technician in the Commonwealth of Pennsylvania.

## **Second Year**

### **Basic Cardiac Life Support Instructor's Course**

The entire class is given the opportunity to become an instructor in Basic Cardiac Life Support according to the standards of the American Heart Association and the remainder of the class is recertified in Basic Cardiac Life Support according to the standards of the American Heart Association.

Recertification 4 hours

Instructor certification 16 hours

## **Third Year**

Upon rotations through PCOM, students are recertified in BCLS in order to qualify for registration in Advanced Cardiac Life Support training in their fourth year.

**Fourth Year**

One month is spent in the emergency department of the Hospital of Philadelphia College of Osteopathic Medicine or one of its affiliated teaching hospitals. During this time, the student is exposed to diagnosis and treatment of emergency patients under direct supervision of attending staff. Also included are demonstration and practice of technical skills, as well as a formal one-day didactic session concerning appropriate emergency department protocols and procedures. In addition, formal and informal clinical discussion periods are scheduled periodically throughout the four-week training period.

**Advanced Cardiac Life Support**

The course in accordance with the American Heart Association standards is conducted throughout the fourth year with certification as an ACLS provider. This course includes basic CPR, airway management, arrhythmia management, essential and useful drug therapy and defibrillation and cardioversion.

**General Practice****Chairman and Professor**

John D. Angeloni, D.O.

**Professors Emeriti**

Samuel L. Caruso, D.O.

J. Vincent Huffnagle, D.O.

**Professor**

Stephen Fedec, D.O.

**Vice Chairman and Associate Professor**

Richard Donnard, D.O.

**Associate Professors**

Michael Avallone, Sr., D.O.

Theodore Bear, D.O.

Philip J. Bell, D.O.

Vernon Buckley, D.O.

Oliver Bullock, D.O.

Mary C. DeJoseph, D.O.,

Chairman, Division of Geriatric Medicine

John J. Flaherty, D.O.

Ronald Goldberg, D.O.

Arlie W. Hedrick, D.O.

Michael F. Shank, D.O.

Kenneth J. Veit, D.O.,

Chairman, Division of Community Medicine

George Vermiere, D.O.

Christine Viola, D.O.

Robyn Weyand, Ph.D.

**Assistant Professors**

Vincent Baldino, D.O.  
Stephen Belfiglio, D.O.  
Paul DeJoseph, D.O.  
Richard DiMonte, D.O.  
Frank DeLia, D.O.  
Anthony DeSalvo, D.O.  
D. Todd Detar, D.O.  
Tamara Fedec, D.O.  
Peter Honig, D.O.

Ronald Meltzer, D.O.  
Joseph Quintilliani, D.O.  
Eric Shore, D.O.  
Harold Schrieber, D.O.  
Arnold Sokol, D.O.  
Henry Street, D.O.  
Lawrence Weinstein, D.O.  
Robert Weisberg, D.O.

**Instructor**

Joseph M. Hassman, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Benjamin Abraham, D.O.  
Angelo Amadio, D.O.  
Anthony Aquillina, D.O.  
Thomas Armour, D.O.  
Mark D. Baker, D.O.  
Bruce B. Bashline, D.O.  
David W. Bashline, D.O.  
Eileen Beale, D.O.  
Hal Bendit, D.O.  
Joan Bilder, M.D.  
Roman Bojewski, D.O.  
Jill Bortz, D.O.  
Deborah Bren, D.O.  
Timothy S. Brooks, D.O.  
Craig D. Caldwell, D.O.  
David Chalker, D.O.  
Craig Christine, D.O.  
Vincent Ciambotti, D.O.  
Robert Cicuto, D.O.  
Paul C. Cipriano, D.O.  
John Coupland, D.O.  
Maria Cruz, M.D.  
Gary Czulada, D.O.  
Alfred D'Angelo, D.O.  
Mary-Lynn D'Auria, D.O.  
Ronald J. D'Orazio, D.O.  
Theodore P. D'Orazio, D.O.

Staurt Davis, M.D.  
James Della Valle, M.D.  
Jerome Deutsch, D.O.  
Malcolm H. Dietrich, D.O.  
Arthur J. Dortort, D.O.  
John E. Dougherty, III, D.O.  
Trudie Ellenberger, D.O.  
Robert J. Esper, D.O.  
John Essock, D.O.  
Robert E. Evans, D.O.  
Alan Fallick, D.O.  
William D. Fetchik, D.O.  
Carl J. Forster, D.O.  
David E. Fox, D.O.  
Ruth Frye, D.O.  
R. Michael Gallagher, D.O.  
Gintare Gecys, D.O.  
Nicholas, J. Grego, Jr., D.O.  
I.G. Guiser, M.D.  
Stephen J. Hardy, D.O.  
William Herbert, D.O.  
George Homa, D.O.  
Harry D. Johnston, D.O.  
John Kalata, D.O.  
Eric Kane, D.O.  
Daniel Kaplan, D.O.  
Charles Kelshaw, D.O.

David Klees, D.O.  
 Kieren P. Knapp, D.O..  
 Ralph Larsen, D.O.  
 Reginald D. Lee, D.O.  
 Robert A. Leopold, D.O.  
 Leonard Limongelli, D.O.  
 Jeffrey Lindenbaum, D.O.  
 Aaron Listopad, D.O.  
 Anthony Magdalinski, D.O.  
 Bruce Maniet, D.O.  
 James Manley, D.O.  
 William J. Marencic, D.O.  
 Thomas Masters, D.O.  
 Frank Matrone, D.O.  
 Robert Maxa, D.O.  
 Ralph Mazzochetti, D.O.  
 William McDowell, D.O.  
 R.C. McLucas, M.D.  
 Glen Miller, D.O.  
 Lincoln Moser, D.O.  
 Samuel A. Namey, D.O.  
 Julie P. Nickles, D.O.  
 Thomas L. Obenreder, D.O.  
 Regina Olasin, D.O.  
 Richard Ortoski, D.O.  
 Hugh E. Palmer, D.O.  
 Richard Papa, D.O.  
 Philip Pearlstein, D.O.  
 Michael Peck, D.O.  
 Walter Reich, D.O.  
 Thomas Renaldo, D.O.  
 Robert Roberts, D.O.  
 Michael Roth, D.O.

Norman Rudolph, D.O.  
 Richard B. Russell, D.O.  
 Barbara Saracino, D.O.  
 Arthur Schenck, D.O.  
 John Schibli, D.O.  
 Lawrence Schmitzer, D.O.  
 Joseph Shatz, D.O.  
 Benjamin Shnurman, D.O.  
 Stanford A. Shor, D.O.  
 David Skole, D.O.  
 Matthew C. Sophy, D.O.  
 Leon Stein, D.O.  
 Ralph Stolz, D.O.  
 Curtis Swagler, D.O.  
 Leo Swanick, D.O.  
 Donald Sweeney, D.O.  
 Lawrence Tama, M.D.  
 Marlene Terlingo, D.O.  
 Philip Tobash, D.O.  
 Larry Todd, D.O.  
 Leo Todd, D.O.  
 Kenneth Tomcho, D.O.  
 Frank M. Tursi, D.O.  
 Sebastian Vitanza, D.O.  
 Phillip A. Walker, D.O.  
 Betty Jo White, D.O.  
 James White, D.O.  
 James E. Witt, D.O.  
 Christine M. Zabel, D.O.  
 Rosemarie Zapp, D.O.  
 Michael J. Zawiasza, D.O.  
 Nelson E. Ziets, D.O.  
 Howard R. Zveitel, D.O.

The objective of the department of general practice of Philadelphia College of Osteopathic Medicine is to teach, encourage and promote excellence in the general practice of osteopathic medicine. The curriculum is formulated to help develop fundamental skills in the art of general practice. The osteopathic approach to fundamental concepts in the field of general practice is integrated into the teaching program.

## **First and Second Year**

### **Physical Diagnosis**

This course provides a review of relevant anatomy and physiology. It describes

the sequence and techniques of physical examination.

### **Aging Sensitivity Program**

All first and second year students are assigned to a geriatric client. Following an orientation period, each first year student will begin socialization visits with their client, which develops into more direct involvement with the patient's health care as the student progresses through the second year. The program provides PCOM students with an early clinical experience and a practical introduction to the unique longitudinal health care needs of the aging patient.

### **Medical Ethics**

This course, presented in the 2nd year, is designed to expose students to major current ethical issues facing the physician and providers of health care. Informed consent, death and dying, distributive justice, and ethical issues related to HIV infection are explored in a lecture series and small group case sessions.

### **Geriatrics**

This second year course provides a multidisciplinary overview of geriatric medicine with an emphasis on osteopathic concepts. Unique medical and psychosocial aspects relating to the care of geriatric patients are discussed, along with basic science principles applicable to the process of aging.

### **Third and Fourth Years**

Practical supervised clinical education is provided via rotations, including preceptorships in offices of general practitioners, health care centers of the college and general practice hospital service. Conferences and lecture programs are an integral part of the program. Rural and urban experiences are available for all students. Students assume increasing responsibility, so they can develop into qualified practitioners.

### **Health Economics**

#### **Course Director**

**James Portlock, MBA, Assistant to the Dean**

#### **Faculty**

Interdepartmental and guest lecturers.

This course focuses on the socioeconomics of contemporary osteopathic practice amid the recent changes which have occurred in the funding and organization of medical practice. The course provides an understanding of these changes and the underlying socioeconomic factors. Representatives from academic medicine, health care delivery organizations, professional associations and govern-

ment are invited to lecture on their often opposing views of what the health care delivery system is and ought to be.

## **Internal Medicine**

### **Professor and Chairman**

John P. Simelaro, D.O.

Chairman, Department of Internal Medicine

Chairman, Division of Pulmonary Medicine

### **Professor Emeritus**

Albert J. Fornace, D.O.

### **Associate Professor Emeritus**

Henry B. Herbst, D.O.

### **Professors**

David Bevan, D.O., Chairman, Division of Rheumatology

Edmond T. Carroll, D.O., Chairman, Division of Adult Allergy and Immunology

Albert E. D'Alonzo, D.O., Chairman, Division of Cardiology

and Director of Clinical Medicine

William J. Gilhool, D.O., Chairman, Division of Gastroenterology

Pat Lannutti, D.O., Chairman, Division of Preventive and General

Internal Medicine and Vice Chairman, Department of Internal Medicine

Stephen S. Levin, D.O.

William A. Nickey, D.O., Chairman, Division of Nephrology and Hypertension

Marvin Rosner, D.O.

Michael Venditto, D.O.

### **Associate Professors**

Theodora K. Bernardini, D.O.

Zenia Chemyk, D.O.

Jeffrey S. Freeman, D.O., Chairman, Divisions of Endocrinology and Metabolism

Barry Getzoff, D.O.

Linda Hagele, M.D., Chairperson, Division of Hematology

and Oncology

Edward Hamaty, D.O.

Bruce Kornberg, D.O., Vice Chairman, Department of Internal Medicine

David Loughran, D.O., Chairman, Division of Adult Infectious Diseases

Michael Resnick, D.O.

Eva Placentra Sesso, D.O.



**Assistant Professors**

Michael Broder, D.O.  
Carl DiJoseph, D.O.  
Armand Formica, D.O.  
Bonnie Gardner, D.O.  
Frank Guinn, D.O.  
Joseph J. Kenney, D.O.

David Masiak, D.O.  
Paul Miller, D.O.  
Howard Rosner, D.O.  
Michael Sallen, D.O.  
Alan Silverberg, D.O.  
Eugene Wyszynski, D.O.

**Instructors**

Alan Bailer, D.O.  
Richard Leshner, D.O.  
Alan Maniet, D.O.

Burton Mass, D.O.  
Marvin Schatz, D.O.  
Steven Zelenkofske, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

William Antonelli, D.O.  
Martin Bascope, D.O.  
Jonathan Bortz, D.O.  
Walter Comiskey, D.O.  
James Conroy, D.O.  
Laurence Cunningham, D.O.  
Ernest Davis, Jr., D.O.  
Daniel C. DuPont, D.O.  
David Elbaum, D.O.  
Gustav Eles, D.O.  
Gary Esper, D.O.  
William A. Esper, D.O.  
Andrew Fanelli, D.O.  
John M. Ferretti, D.O.  
Vincent Fierro, D.O.  
John Fornace, D.O.  
William Frank, D.O.  
Kevin Furey, D.O.  
Richard Ginsberg, D.O.  
Vincent D. Glielmi, D.O.  
Richard S. Goodstein, D.O.  
Hinda Greene, D.O.  
Alan S. Groth, D.O.  
Charles Hurwitz, D.O.  
Mark A. Illfelder, D.O.  
Walter Kannangara, M.D.  
Steven Katz, D.O.

Robert Kiel, D.O.  
Stephen A. Krathen, D.O.  
Michael Krug, D.O.  
Jeffrey Levine, D.O.  
Ronald L. Lewis, Jr., D.O.  
Robert Luderer, D.O.  
Michael Mann, D.O.  
Bruce Margolis, D.O.  
Jeffrey Maron, D.O.  
James McHugh, D.O.  
Anthony Niescier, D.O.  
John Nipple, D.O.  
Domenic Pisano, D.O.  
Michael Polnerow, D.O.  
Leonard Rosenfeld, D.O.  
Morris I. Rossman, D.O.  
Julie Rothman, D.O.  
Alan Schorr, D.O.  
Walter Schwartz, D.O.  
Donald V. Sesso, D.O.  
Carl W. Sharer, D.O.  
Christopher H. Snyder, D.O.  
Walter Snyder, D.O.  
Michael Tanitsky, D.O.  
Robert L. Tecau, D.O.  
Frederick G. Uberti, D.O.  
Shailendra Vaidya, M.D.

## **Second Year**

The Internal Medicine course is presented in the sophomore year and presents the wide breadth of internal medicine subdisciplines through lectures and other teaching modalities. Course material is coordinated with presentations by the departments of Surgery and Pathology to provide a full treatment of all subject areas from several different perspectives. Descriptions of the subdiscipline didactic programs follow:

### **Allergy and Immunology**

This course is a complete introduction to clinical allergy and immunology, including atopic disease, humeral and cell-mediated immunity and deficiency states associated with both components of the immune system. Current concepts regarding immunotherapy both in infectious and neoplastic diseases are also included.

### **Pulmonary Diseases**

Using didactic lectures, oral quizzes and clinical presentations, this course introduces the student to the etiology, diagnosis and treatment of the diseases of the respiratory system.

### **Cardiology**

This course is intended to introduce the student to clinical cardiology at its most fundamental level with an explanation of the mechanisms of the cardiac cycle, the heart sounds, bedside clinical diagnosis of findings suggestive of underlying heart disease, the arrhythmias both atrial and ventricular, and the significant categories of commonly encountered organic heart disease, acquired, congenital, hereditary and infectious. The course will also include appropriate implications of peripheral vascular disease.

### **Endocrinology and Metabolism**

Lectures and clinical demonstrations of diseases of the endocrine glands, including metabolic disorders, vitamin and nutritional disturbances.

### **Gastroenterology**

Guest lecturers present a compendium of diseases of the gastrointestinal system, including the common and uncommon gastrointestinal conditions, biliary metabolism, and infections and infestations of the liver and gut. Endoscopic implications and slides are incorporated to demonstrate pathology as viewed by Dr. Gilhool and his associates through gastrointestinal endoscopy and colonoscopy. Photomicrographs of various categories of the liver diseases are also presented.

### **Hematology-Medical Oncology**

The course in hematology is designed to facilitate clinical diagnosis. Interpretation of peripheral blood smears is emphasized. Rational and orderly diagnostic

approach will be stressed. Lectures on therapy will include appreciation of the problems encountered by patients with hematologic disorders.

The course in medical oncology is presented to acquaint the student with the role of the chemotherapist in the management of patients with metastatic malignancies. The mechanism of drug actions and their toxicities will be presented. Multi-modality approaches and experimental drug programs will be overviewed.

### **Infectious Diseases**

The course in infectious diseases is a clinical approach to infectious diseases with emphasis on bacterial infections; some of the more common viral infections are considered. The clinical application of antimicrobial agents will be reviewed, based upon their mechanisms of action. The more common infectious diseases of adults are included.

### **Nephrology**

Lectures will be given detailing medical diseases of the kidney. Included are the nephritides, vascular, hereditary and degenerative renal diseases, and acute and chronic renal failure with introductions to dialysis and transplantation. In-depth discussions of electrolyte and acid base metabolism as well as hypertension are also provided.

### **Rheumatology**

During the second year of training, "Introduction to the Rheumatic Diseases", is presented as a series of lectures and demonstrations by the staff in the Division of Rheumatology, Department of Internal Medicine. Discussions of rheumatic disease from a clinical, laboratory, etiopathological and management point of view are highlighted and discussed.

### **Preventive Medicine and Public Health**

The course in General Internal and Preventive Medicine/Public Health is designed to prepare the student for the biopsychosocial aspects of medicine, as well as problem solving and the principles of prevention. The lectures consist of case presentations, interviewing techniques, discussions of the preventative aspects of disease processes and basic internal medicine practices. There is a designed approach encouraging interaction. Basic public health issues are presented as part of this course, to prepare students for the practice of medicine within the context of society and in diverse communities.

### **Third and Fourth Years**

The third year consists of clinical rotations through the various inpatient medical services of Philadelphia College of Osteopathic Medicine and its associated teaching hospitals. During this time the student is also exposed to the realities of practice in an outpatient health care center under the supervision of

responsible faculty physicians. The student is responsible for history taking and physical examination, including a detailed examination of the musculoskeletal system. After conferring with the supervising physician, the student proceeds with therapy, which also includes patient and family education. If the need for specialty consultation arises, the student accompanies the patient to the specialty consultation clinic.

In the fourth year, the student plays an integral part in the patient's care, participating in the diagnostic work up as well as treatment, and remaining under the supervision of the intern, resident and attending staff physician. By the completion of the fourth year, the student is exposed to almost all categories of acute and chronic illnesses and embraces the application of the osteopathic concept in both etiology and therapeutics of disease processes. Throughout the whole four years of osteopathic education, the pre-eminence of preventive medicine is constantly reinforced.

## **Library Science and Microfilming**

### **Faculty:**

#### **Professor and Director of Library and Microfilming**

**Shanker H. Vyas, Ph.D.**

#### **Associate Director & Professor**

Hansa Vyas, M.S.

#### **Assistant Professor**

#### **Reference and Search Analyst**

Kathryn Picardo, M.S.

Students receive personal instruction in the availability and use of library materials.

## **Medical Jurisprudence**

### **Course Director**

Robert G. Cuzzolino, Ed.D., Assistant Dean for Educational Resources

### **Second Year**

During the second term, lectures in law and medical jurisprudence are presented to provide students with a basic understanding of the legal obligations and responsibilities of physicians, both professionally and personally. The lectures are presented by members of the law firm of Blank, Rome, Comisky and McCauley.

## **Microbiology and Immunology**

### **Acting Chairman & Associate Professor**

Lynn T. Callahan, Ph.D.

### **Associate Professor**

Bruno J. Bromke, Ph.D.

### **Assistant Professor**

Carol A. Bortner, Ph.D.

### **Research Professors**

Benjamin A. Rubin, Ph.D.

Joseph V. Uri, M.D., Ph.D.

### **Adjunct Professors**

Aaron D. Alexander, Ph.D.

James E. Prier, Ph.D.,

Director Comparative Medical Laboratory

### **Adjunct Associate Professor**

Bruce Kleger, D.P.H.

## **First Year**

### **Medical Microbiology**

The goal of this course of study is to provide the medical student with a basic understanding of the biology of infection associated with members of the major groups of microbes and the immunologic responses of the host.

The one semester of lectures covers the entire spectrum of infectious agents, their classification, morphology, and biochemical properties which are important in understanding their stability, mode of transmission and site of infection within the host. Basic mechanisms of disease production in each instance are also discussed along with the host response and appropriate diagnostic procedures. A laboratory course is given simultaneously with the lecture course. This is designed to familiarize the student with techniques essential for proper understanding and carrying out of aseptic technique, handling microorganisms and observing their basic properties, collecting and handling specimens for diagnosis, processing laboratory specimens, and interpreting laboratory results.

The course naturally falls into the following divisions:

### **Major Groups of Microbes**

An introduction to the groups of organisms: their classification, morphology, genetics and biochemical properties, biological properties and genetics, including some discussion of antibiotic resistance.

**Bacteriology and Mycology**

Emphasis is given to properties of organisms as related to pathogenesis of disease, diagnostic tests and their control.

**Parasitology**

A study of the protozoa, helminths and arthropods which are associated with human disease: their life cycles, pathogenesis, epidemiology and control measures.

**Virology**

The general properties of viruses and their replication for understanding of infection, disease and treatment are presented. The epidemiology, laboratory diagnosis and prevention of infection are presented for the various viruses associated with human infection and disease.

**Immunology**

A presentation of the nature of antigens, immunoglobulins and complement, along with a detailed description of the various cells, tissues, soluble mediators, and organs of the immune system is given. Basic aspects of immune responses are covered and, in conjunction with a study of various in vitro and in vivo immunological reactions, are related to: responses to foreign substances; resistance to microbial agents; immunopathological processes; immune tolerance; tissue transplantation; blood transfusions; and immune deficiency states.

**Neurology****Chairman and Professor**

Joseph Lubeck, D.O.

**Professor Emeritus**

George Guest, D.O.

**Professor**

Dennis Graham, D.O.

**Assistant Professor**

David Tabby, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Robert Baker Jr., D.O.  
Robert Roeshman, D.O.  
Deborah Roifer, D.O.

David Thomas, D.O.  
Roger Weiss, D.O.

**First Year**

Lectures and demonstrations by members of the department are presented as part of the integrated neurosensory sciences during the first year.

**Second Year****Neurology**

A fall second year neurology lecture series reviews the anatomy, physiology and pathology of the nervous system as it applies to problems in clinical neurology. A systematic course of instruction covering diseases of the brain, spinal cord, peripheral nerves and neuromuscular system is presented. The specialty of neurology is approached from the modern therapeutic point of view and how the anatomic, physiologic and pathologic aspects are interrelated. The procedure of listing the neurologic history and technique of neurologic examination is covered in detail.

**Third and Fourth Years**

Daily rounds are made by attending physicians in the department of neurology in the hospital. Third- and fourth-year students as well as house staff of the Hospital of PCOM have the privilege of attending these sessions. All interesting cases are presented in conference sessions attended by members of the department and monthly Neurology Grand Rounds are held. Visiting professors from other major teaching institutions are invited on a monthly basis at which time they make hospital rounds and either present a specific topic of interest to them or discuss the case presentation.

**Obstetrics and Gynecology****Chairman and Professor**

Saul Jeck, D.O.

**Professors Emeriti**

Fairman L. Denlinger, D.O.

Lester Eisenberg, D.O.

Frank Gruber, D.O.

**Professors**

Emanuel Fliegelman, D.O.,  
Director, Human Sexuality Programs  
Simon Lubin, D.O.

Michael Mansi, D.O.,  
Chairman, Division of Reproductive  
Endocrinology  
Edward Slotnick, D.O.

**Associate Professors**

Patrick Becher, D.O.  
Neil Bluebond, D.O.  
Wesley Chodos, D.O.  
Karl Giulian, M.D.  
Michael Gross, M.D.  
Ronald Librizzi, D.O.

Gandhi Nelson, M.D.  
Lester Ruppertsberger, D.O.  
Fredric Steinberg, D.O.  
Warren Taylor, D.O.  
Herbert Wendelken, D.O.  
Henry Wang, M.D.

**Assistant Professors**

Herman Brizuela, M.D.  
Harvey Bryant, Jr., D.O.  
Jung Fu Chen, M.D.

Kavous Emami, M.D.  
Preston Kuptsow, D.O.  
A. Gary Oberholtzer, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Robert Auerbach, D.O.  
Warren Brandwine, D.O.  
Paul Copit, D.O.  
George Davis, D.O.  
Bertram Ellick, D.O.

Susan Peck, D.O.  
Steven Richman, D.O.  
R.W. Taylor, D.O.  
Richard Tucker, D.O.

**Division of Midwifery**

Adele O'Neill, CNM  
Anne Gilmore, CNM

Barbara Herr, CNM  
Ruth Wilf, CNM

Private practice nurse midwives provide services at PCOM in collaboration with physician backup. Certified nurse midwives provide antepartum, intrapartum, postpartum and Gyn care to low risk women. Interested students have a unique opportunity to work with certified nurse midwives and learn alternatives to traditional management. Nurse midwives work closely with their clients and stress education with client participation in their care. Certified nurse midwives provide labor support and management as well as delivery. They use jacuzzi therapy, bedbirths, and have decreased the need for medication, episiotomies, and Caesarean Sections. Exposure to certified nurse midwives provides medical students with a widened scope of safe options available for family centered care.

**First Year****Human Sexuality**

This course is designed to acquaint the medical student, who will soon become an osteopathic physician, with changing attitudes to this timely subject. Facts will be supported. Fallacies will be dispelled. How to take a sexual history and be comfortable with the sex topics and sexual dysfunctions will be explained.



The sexual response cycle, sexuality in the aged, in pregnancy and in the chronically ill are other topics to be discussed. Rape, incest and counseling are also covered. Audiovisual techniques, guest lecturers, and seminars will aid in the presentation of this attitudinal subject.

## **Second Year**

### **Obstetrics**

Lectures, demonstrations and live patient models. This course comprises a systematic study of normal pregnancy, labor and puerperium. A review of reproduction as it pertains to the human introduces the subject. This is followed by studies that concern the progress and management of normal pregnancy through its completion. The management of normal labor, the diagnosis of the various presentations and the mechanisms of labor are stressed. This is followed by studies of the pathology of pregnancy, diagnostic methods and treatment.

### **Gynecology**

Lectures, demonstrations and live patient models. The course is introduced by a review of the anatomy and physiology of the organs of reproduction. The non-surgical gynecological diseases are then presented. Lectures and demonstrations of the diagnostic and operative gynecology procedures are presented. Family planning, contraception, infertility and gynecologic oncology complete the course.

## **Third Year**

### **Outpatient Service**

Students are assigned to obstetrical and gynecological patients in the outpatient clinic. Practical management on an ambulatory basis under the supervision of a member of the service is offered. A general practice(family service) approach is stressed.

### **Hospital Service**

Students are assigned to general hospital and obstetrical gynecological service. On obstetrical service, the student is trained in history and physical examination of the obstetrical patient, given drills in the use of obstetrical forceps and vacuum extractors, instructed in basic gynecologic pathologies and pelvic examination of training "Gynny" models; offered daily conferences, and trained in the technical arts in preparation for the internship year. Facilities are provided for the student to be in the unit at all times. On general hospital service, the techniques of gynecologic history and examination are stressed. The student is expected to follow the patient through all phases of hospitalization. A handbook is supplied containing information about assignments.

## **Ophthalmology**

### **Chairman and Professor**

Carlo DiMarco, D.O.

### **Professor Emeritus**

H. Malon Gehman, D.O.

### **Professor**

Paul J. Mischia, D.O.

### **Associate Professor**

Saul Bresalier, D.O.

### **Assistant Professors**

David Ringel, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Arthur Calabrese, D.O.

Jeffrey H. Chaby, D.O.

Anthony Sala, D.O.

## **Second Year**

### **Ophthalmology**

The anatomy and physiology of the eyes are reviewed. The pathological changes encountered are presented, and their relation to the diagnoses and management of general systemic diseases discussed. Lectures cover osteopathic and surgical aspects of diseases of the eye. General optical principles are presented, and the symptoms and treatment of the errors of refraction are taught and demonstrated.

## **Third and Fourth Years**

### **Ophthalmology**

Students assist in the examination of the eyes; they become familiar with the use of the ophthalmoscope, the retinoscope and the study of the visual fields. They study the eyegrounds in relation to metabolic and other diseases, and observe surgical procedures of the eye and its adnexa.

## **Osteopathic Manipulative Medicine**

### **Chairman and Professor**

**Alexander S. Nicholas, D.O.**

### **Professors Emeriti**

Marvin Blumberg, D.O.

Nicholas S. Nicholas, D.O.

David Heilig, D.O.

### **Associate Professors**

Walter Ehrenfeuchter, D.O.

Katherine M. England, D.O.

Ida Schmidt, D.O.

Jerome Sulman, D.O.

### **Assistant Professor**

Philip Bell, D.O.

David Coffey, D.O.

Anthony Leone, D.O.

Evan A. Nicholas, D.O.

E. Noble Wagner, D.O.

Galen D. Young Jr., D.O.

Abraham Zellis, D.O.

### **Instructors**

Robert Gober, D.O.

Rickey Lockett, D.O.

All courses for the first two years are required except those designated "elective."

### **First Year**

#### **Principles and Practice (Fundamentals)**

Students are introduced to the concept and philosophy of the osteopathic school of the healing arts in lectures and practice sessions. Fundamentals in the art of observation, palpation and evaluation are presented. Practice session sheets are furnished for both instruction and recording of findings. Surface anatomy is studied and landmarks identified to lay a proper foundation for future work in this department as well as for physical diagnosis. Physiologic motions of the spine are considered in both lecture and practice sessions. Tests for active and passive motion are presented and carried out in practice sessions. Regional motion testing is applied. An accurate examination of the myofascial system with appropriate diagnosis of dysfunction is required by the end of this course.

Myofascial techniques will also be demonstrated and the students will be examined on their proficiency of these techniques after practicing them.

**Principles and Practice II**

Scientific Background; Body Mechanics, Diagnosis Of Somatic Dysfunction, Pathophysiology and Neuroanatomic basic of somatic dysfunction; Thrust, (mobilization with impulse) techniques.

Spinal lesion pathology and etiology are studied. Forces acting on and through the spine are considered, as is articular strain. Regional study as well as the mechanics of the transitional areas is included. The neuroanatomic basis of somatic dysfunction and the greater osteopathic lesion complex are studied in detail. Techniques for the treatment of somatic dysfunction are demonstrated by the staff and practiced by the students.

**Second Year Principles and Practice III**

Principles and techniques applicable to visceral disease states (viscero-somatic, somatovisceral, visceroviscero and somato somato reflexes). Introduction to basic craniosacral mechanisms. Considerations in the selection of techniques are presented.

**Principles and Practice IV (Extremities)**

Lectures and practice sessions are correlated and directed toward the understanding and management of various appendicular problems. Basic principles are taught and practiced along with basic techniques.

**Principles and Practice V (Principles and Techniques)- Elective**

Special sessions for additional in-depth study of osteopathic principles and practice of osteopathic manipulative techniques are offered to assist those who desire or have need to further their ability.

**Third Year**

Clinical rotation with active patient involvement with particular stress placed on role of osteopathic techniques in various conditions.

The students are also given didactic lectures and clinical presentation. A weekly journal club is an important part of this rotation.

**Otorhinolaryngology Bronchoesophagology and Oro-Facial Plastic Surgery****Chairman and Professor**

Ronald Kirschner, D.O.

**Professors Emeriti**

Harry I. Stein, D.O.

Martin S. Neifield, D.O.

**Professors**

Theodore Mauer, D.O.  
Stephen D. Smith, D.M.D.  
Lynn F. Sumerson, D.O.

**Associate Professors**

Alvin Dubin, D.O.  
Louis Gersman, Ph.D.  
Robert Giuliano, D.O.  
Stewart Selkin, M.D.  
Robin Zeller, Ph.D.

**Assistant Professors**

Abby Brodtkin, D.O.  
Stephen S. Chankin, D.O.  
David Granoff, D.O.  
Paul Imber, D.O.  
Bernard D. Kleinman, D.M.D.  
Bernard C. McDonnell, D.O.  
Vytas Siliunas, D.O.  
Andrea Woll, D.O.

**Instructor**

Nancy Koshetar, D.D.S.

The following faculty actively participate in our program of clinical education at off-campus sites:

Frank Marlowe, M.D.  
Julius Newman, M.D.  
Marc Rosen, M.D.  
Lee D. Rowe, M.D.

The formal course in otorhinolaryngology is given during the second year. The instruction is designed to meet the needs of a well trained primary care physician. Emphasis is placed on the clinical approach of diagnostic and treatment patterns of common disorders of the head and neck area, as well as emergency trauma situations involving the soft tissue and bony structures of the face. The osteopathic considerations in etiology, diagnosis and treatment of head and neck disorders are discussed.

**First Year****Neuroscience**

Members of the department participate in the clinical correlation programs in cooperation with the anatomy department.

**Second Year****Otorhinolaryngology, Bronchoesophagology and Oro-Facial Surgery**

The purpose of the second-year course is to present from a practical clinical standpoint the common disorders of the head and neck seen by the primary

care physician. The fact that these disorders account for 20 to 30 percent of all patients seen by the primary care physician is stressed. Covered are otology, rhinology, laryngology, bronchoesophagology, head and neck oncology, aesthetic facial surgery, dental and temporomandibular joint diseases, and emergency and trauma situations.

Practical examination demonstration sessions are scheduled with small groups of students over the course of the second year. The use of E.N.T. instrumentation is taught and then practiced by the students. A basic clinical skills evaluation is carried out by department members.

### **Third and Fourth Years**

During the third year, all students are given a four-week practical rotation with various members of the E.N.T. department in office and hospital settings. Practical examinations and treatment of common problems of health care center and hospital patients are performed by the student under the direction of department members. Observation and demonstration of specialty procedures at the health care centers and hospital provide an adequate foundation for practice. In the hospital, students perform history and physical examinations, and observe and assist in surgical procedures. The health care centers, hospital and emergency room are used to develop in the graduating physician the knowledge required of every physician concerning diseases of the head and neck. Demonstrations and observation of department members using new technology, such as the surgical laser, are integral parts of the program.

## **Pathology and Laboratory Medicine**

### **Chairman and Professor**

John Femandes, D.O.

### **Professor Emeriti**

Ruth Waddel Cathie, D.O.

Wm. Silverman, D.O., L.L.D.

### **Adjunct Professor**

Robert Segal, M.D.

### **Associate Professor**

John R. Zond, D.O.

### **Assistant Professors**

Norman Coffman, Ph.D.

Irvin Lock, D.O.

Ahuva Oren, M.D.

The following faculty actively participate in our program of clinical education at off-campus sites:

Robert Biondi, D.O.  
Oscar Fernandez, D.O.  
Justin H. Gershon, D.O.  
Helga N. Nallathambi, M.D.

James Puckett, D.O.  
Royce Skaggs, D.O.  
Herbert Spellman, D.O.  
Dale Steventon, D.O.

### **First Year**

Introduction to normal and abnormal pathology is presented by the Department of Pathology, within the Histology course, as part of the Anatomy curriculum. The presentations center around inflammation, repair, neoplasia, specific tumors, environmental pathology and toxins.

### **Second Year Pathology I**

The initial portion of the course during the sophomore year is devoted to general pathology. During this time, specific discussions regarding basic pathophysiologic mechanisms are entertained. These areas are concerned with, but not limited to: inflammation and repair, cell death, cell alterations, fluid and hemodynamic derangements, environmental pathology, infections disease mechanisms, and immunologic mechanisms of disease. The effort through the presentations is to establish a link between the student's basic information, already garnered from previous courses, and relate that understanding to the pathologic state, and finally, in selected cases, to bring the pathologic state to the clinical presentation in the proper patient setting.

### **Pathology II**

In the second portion of the course, specific organ systems are reviewed in detail. These systems include, but are not limited to: diseases of the central nervous system, special senses, gastrointestinal tract, female and male genitalia, skin, cardiorespiratory disorders, genitourinary diseases, and musculoskeletal disorders.

The Laboratory Medicine Seminar specifically addresses in systematic fashion common laboratory parameters useful to the primary care physician. Within this time, discussion is brought about regarding laboratory procedures such as CBCs, cardiac enzymes, clinical chemistry, urinalysis, blood banking and coagulation, and laboratory statistics.

Within the course, a mini "systems approach" is shared with the Departments of Surgery and Internal Medicine. During this presentation, the Department of Pathology team teaches with the other departments the pathological aspects of the topics within the mini system, in a logical fashion.

### **Third and Fourth Years**

The department of pathology and laboratory medicine provides elective rotations in the hospital laboratory for third and fourth-year students. These rotations offer the student the opportunity to acquaint himself/herself with the techniques of laboratory performance, and the rationale of ordering tests to determine a diagnosis, evaluation and interpretation of results, etc. Concurrently, the student has the opportunity to observe the clinical applications of laboratory medicine by reviewing patient charts, autopsy protocols, participating in scheduled C.P.C.'s and such other exercises required to prepare him/her for eventual responsibility in treating patients.

During the rotation, the student attends and participates in tumor conferences, seminars, discourses, etc., in the college and hospital.

### **Pediatrics**

#### **Chairman and Professor**

Robert Berger, D.O.,  
Assistant Dean for Clinical Education

#### **Professor Emeriti**

Samuel L. Caruso, D.O.  
F. Monroe Purse, D.O.

#### **Professors**

Joseph A. Dieterle, D.O.  
Carl Giombetti, D.O.  
Steven M. Snyder, D.O.,  
Chairman, Division of Neonatal Services

#### **Associate Professors**

Sandra W. Gawchik, D.O.  
Rosemary Vickers, D.O.

#### **Assistant Professor**

Lee Ann Brodzik, D.O.  
John Bruno, D.O.  
Harry Flanagan, D.O.  
James Kantor, D.O.

A. Faye Rogers-Lomax, D.O.  
Steven Shapiro, D.O.  
Mary J. Teter-Babiak, D.O.  
Rosemary Vickers, D.O.

#### **Instructors**

John Curley, D.O.  
Rebecca Druash, D.O.

George Kenis, D.O.  
Cathy Parillo, D.O.



The following faculty actively participate in our program of clinical education at off-campus sites:

Marvin Backal, D.O.

Holly Breuninger, D.O.

Philip W. Eppley, D.O.

Harold H. Finkel, D.O.

Margaret Knox-Lee, D.O.

Pamela Mehalich, M.D.

Albert Pizzica, D.O.

Malcolm Schwartz, D.O.

Kenneth Toff, D.O.

David Yakacki, D.O.

The pediatric didactic and clinical teaching programs consist of lectures, ambulatory and inpatient pediatrics, and neonatal education. Pediatric patients are assigned to a third-year student and/or intern and resident whose evaluation include complete and proper history taking, physical examination, and growth and development analysis with osteopathic structural integration. Patient management is supervised and demonstrated by attending pediatricians, residents, and the pediatric interns.

Interns and third-year students are assigned on a rotating basis to inpatient pediatrics, neonatal service and ambulatory care.

Third-year students are encouraged to attend intern and resident pediatric conferences which are held regularly as well as departmental conferences for their professional enrichment. The students are presented assignments both for reading and research with topics assigned by the department chairman and his pediatric associates. Visiting pediatricians and subspecialists are invited throughout the year to participate in pediatric conferences in the hospital.

## **Second Year**

Lectures and audiovisual demonstrations. The normal development of the pediatric patient is emphasized. The total lecture schedule encompasses approximately 50 hours and includes didactic material such as the study of the fetus, high-risk pregnancies, premature and newborn high-risk problems, and difficulties affecting perinatal care of premature and full-term infants. Preventive pediatrics (hygiene, infant feeding and immunizations) is discussed at the ambulatory office practice level, as well as at the hospital critical care level. Gastrointestinal, surgical, hematologic, nose and throat, and cardiovascular problems are studied and presented by the pediatrician and/or subspecialist. Lectures and audiovisual demonstrations of the disease process with their influence on the fetus, newborn, and pediatric population are presented with diagnostic criteria and management. Fluid and electrolyte balance, emergency room care, medical aspects of trauma, fever and convulsions, the unconscious child, metabolic problems, and other pediatric problems are thoroughly covered. Burns, collagen diseases, enuresis, medical genitourinary disease and central nervous system problems are discussed by the pediatricians and subspecialists. Special attention is given to developmental, neurological and behavioral pediatrics in this review by our pediatric development specialist. Our infectious disease pediatrician,

neonatologist and cardiologist help to broaden the scope of our teaching program. Various pediatric surgical problems are also discussed to provide sufficient exposure to these entities. In addition, allergy, immunology and dermatologic pediatric problems are presented to give the student a comfortable understanding of this field.

### **Third and Fourth Years**

#### **Health Care Centers**

At PCOM, there are four urban health care centers to which the third-year students are assigned, and they relate to our pediatricians at HPCOM by referring the more difficult diagnostic cases, cases that require more expertise and/or hospitalization. At our new ambulatory facility in the Medical Office Building, the pediatricians conduct a private outpatient practice and provide consultations to our attending staff and/or osteopathic practitioners who require a pediatric opinion. At our Lancaster Avenue Health Care Center, students, interns and residents participate in the evaluation and care of children in a busy clinic practice under the supervision of a whole-time pediatrician.

#### **Hospital Instruction**

Pediatric patients are admitted to the Hospital of Philadelphia College of Medicine, where the third-year students, interns, and residents are assigned to the pediatric department. They are instructed by the attending pediatricians, the residents and interns on service in areas of history and physical examinations, differential diagnosis and management. Pediatric and neonatal procedures, perinatal care, and emergency neonatal methods are discussed and demonstrated by our neonatologist and staff. The osteopathic concept is integrated in bedside demonstrations and discussions of patient care.

The addition of neonatologists to our staff has geometrically increased the capabilities of our intensive care nursery to a tertiary center for high risk infants requiring critical care. These patients will be referred from other hospitals and transported by ambulance service with a pediatrician and nurse in attendance. To assure adequate pediatric training, some students are also assigned to other accredited hospitals or to private pediatricians for clinical pediatric clerkships. The department chairman oversees all these pediatric programs in consultation with the Assistant Dean for Clinical Education.

### **Physiology and Pharmacology**

#### **Chairman and Professor**

**Demenic A. DeBias, Ph.D.**

**Assistant Dean for Basic Sciences**

**Professors**

Charlotte H. Greene, Ph.D.

Henry Hitner, Ph.D.

Walter Prozialeck, Ph.D.

Leonard Rubin, Ph.D.

**Adjunct Professor**

Henry Stephen Brenman, D.D.S.

**Visiting Professors**

M.H.F. Friedman, Ph.D.

Hyman Menduke, Ph.D.

**Associate Professors**

Michael Mahalik, Ph.D.

Susan Miska, Ph.D.

**Assistant Professors**

E. Milton Friedman, D.O.

Bohdan Minczak, Ph.D.

**First Year****Medical Physiology**

Students are presented the basic principles in the physiology of the cell, blood, circulation, respiration, muscle and nerve, metabolism, digestion, endocrine system and kidney. They are indoctrinated in the fundamentals of the functional phases of the systems of the body, and osteopathic concept is emphasized whenever applicable. In addition to basic physiology, correlations between the basic sciences and the clinical phases are established. The conference system of instruction is used and a highly integrated program of audiovisual aids supplements the lectures and conferences. Laboratory sessions provide demonstration and use of a number of advanced research modalities. The objective is to teach basic physiological principles with clinical application. Problem solving is presented utilizing case studies in small group settings.

**Neurophysiology**

The department of physiology participates in the multidisciplinary course in neurosensory sciences. The physiology of the central nervous system and special senses is taught in the neurosensory sciences course.

**Biostatistics**

Students are presented with foundations of statistics related to the biomedical sciences and interpretation of scientific data.

The course covers basic descriptive statistics, probability, distributions,

correlational methods, and analysis of variance. Students are required to complete practice problems to master statistical concepts and skills. The course is designed to provide future physicians with the capability to understand biomedical information presented in statistical form, and to provide a basis for those who wish to pursue statistical applications in biomedical research. The course is presented by Dr. Menduke.

## **Second Year**

### **Medical Pharmacology**

The pharmacodynamics of major drugs are described by classes, according to principal sites of action, such as a central nervous system, cardiovascular system, etc. Detailed study is made of a typical or principal member of each group, and the significant differences of other group members are described. The underlying principles of drug therapy and its special role in osteopathic practice are presented, with frequent reference to the application of pharmacology to clinical situations. Consideration is given to the principles of drug actions and to interactions between therapeutic agents. Instruction in toxicology and in the principles of prescription writing is also included. Problem solving is presented utilizing case studies in small group settings.

## **Psychiatry**

### **Chairman and Professor**

Nancy Renzi, M.D.

### **Professor Emeritus**

George H. Guest, D.O.

### **Professors**

Irvin M. Gerson, M.D.

Cecil Harris, D.O.

Morton S. Hershowitz, D.O.

Burton Mark, D.O.

Irwin Rothman, D.O.

H. Michael Zal, D.O.

### **Associate Professors**

David Baron, D.O.

Martin B. Goldstein, D.O.

I. Jay Oberman, D.O.

Marjorie Cohen Saul, M.D.

Sheldon Wagman, D.O.

### **Assistant Professors**

Eugene Della Badia, D.O.

Albert Honig, D.O.

James Rea, D.O.

**Instructor**

Neal Brandoff, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Byung Ahn, M.D.  
Leslie Albert, D.O.  
Ned Baron, D.O.  
Nicholas Bash, M.D.  
Victor Bove, D.O.  
George E.C. Evans, D.O.  
Barry Farber, M.D.  
Mark Fishtein, D.O.  
Charles Giannasio, M.D.  
Shivkumar Hatti, M.D.  
Susan Ice, M.D.  
Sol Kadish, D.O.

Saverio Laudadio, D.O.  
Seok Y. Lee, M.D.  
Edward R. Morasco, M.D.  
Robert T. Motsay, D.O.  
Elisa V. Padayhag, M.D.  
Ronald Palmieri, M.D.  
Earl Smith, D.O.  
Thomas Smith, M.D.  
Donald E. Stoudt, M.D.  
Indira Vijayvargiya, M.D.  
Theresa Wall, D.O.  
Seek Hee Yoo, M.D.

**First Year****Psychiatry I**

Introduction and orientation into the field of psychiatry and human behavior. The various theories and concepts of the etiology of mental and emotional illness are discussed. The techniques of examination of psychiatric patients and the classification of psychiatric illness is presented in detail. Psychiatric syndromes, including schizophrenia and major affective disorders, organ brain syndromes and personality disorders are also presented in the first course in psychiatry.

**Second Year****Psychiatry II**

This is a continuation of psychiatry I, with consideration given to child and adolescent development and problems encountered in these areas. Special psychiatric problems are also included, such as alcohol and substance abuse, adjustment disorders, and forensic psychiatry.

**Psychiatry III**

This course includes a specialized series of medical and psychiatric lectures on psychiatric gerontology.

**Third and Fourth Years**

Ample clinical patients are available, enabling the student to observe and participate in the therapy and examination of psychiatric patients (both in the hospitals and clinics) under close supervision of the psychiatric staff. Conferences

are held regularly by the psychiatric staff.

Rotations in psychiatry are elective in the fourth year. All students are assigned to the various rotations in psychiatry inpatient units in general hospitals, state hospitals, private psychiatric hospitals and outpatient clinics. Rounds in general hospitals are also made available. Outpatient units at PCOM and various areas in the city are also available for student training and observation.

General Community Hospital Lancaster

Philadelphia Psychiatric Center

Norristown State Hospital

Hospital of Philadelphia College of Osteopathic Medicine

## **Radiological Sciences**

### **Chairman and Professor**

Robert L. Meals, D.O.

### **Professors Emeriti**

Paul T. Lloyd, D.O.

A. Aline Swift, D.O.

### **Professors**

Henry J. Helak, D.O., Vice Chairman

J. Peter Tilley, D.O.

### **Associate Professors**

Sanford Levy, Ph.D.

Ralph Khan, D.O.

### **Assistant Professors**

Stephen Fudell, D.O.

Lawrence Jordan, D.O.

Olga Trebelev, M.D.

The following faculty actively participate in our program of clinical education at off-campus sites.

David Bolden, D.O.

Richard DiPietro, D.O.

David W. Humphrey, D.O.

Burton Marks, D.O.

Norman Ruttenberg, D.O.

Sayed Shohadai, M.D.

Dale Williams, D.O.

Michael Wolfson, M.D.

The Department of Radiology offers courses of instruction designed and arranged to acquaint the student with the physical properties and the biological effect of ionizing radiations, together with their application to the fields of diagnostic and therapeutic medicine and to their uses in present day investigation and research.

### **First Year**

#### **Radiology I - Fundamentals of Radiology**

A required course of normal radiographic anatomy integrated with first and second terms of anatomy. Emphasis will be placed on normal and developmental roentgen anatomy as it relates to clinical medicine. It will include basic radiobiology, physics, nuclear medicine and therapy as related to the anatomical basis of medical practice.

#### **Radiology II - Fundamentals of Neuroradiology**

A required course of radiology integrated with the neurosensory sciences to include normal neuroradiographic anatomy as related to neuropathology and clinical neurology.

### **Second Year**

#### **Radiology III - Diagnostic Radiology**

A required course to include the disease states of all the organ systems with review of both routine and special procedures to correlate with gross pathologic anatomy.

#### **Radiology IV - Radiation Therapy**

A required course to include the role of radiation therapy in the treatment of malignancy.

### **Third Year**

#### **Radiology V - Clinical Radiology**

A required course of four weeks duration presented for rotational groups of 16 to 20 students. It includes self-instructional seminars, slides (568), rotating film exhibits (300), round table discussions on planning roentgen studies, didactic lectures on specialty areas, seminars and conferences in nuclear medicine, departmental conferences and tumor board meetings.

#### **Radiology VI - Therapeutic Radiology**

An elective seminar-type course. For those students who show continuing interest in the specialty. To include the therapeutic use of orthovoltage and supervoltage radiation for the treatment of cancer.

**Radiology VII - Nuclear Medicine**

An elective seminar-type course. For those students who show continuing interest in the specialty of nuclear medicine. Includes the diagnostic and therapeutic use of radioisotopes.

**Third or Fourth Year****Elective - Radiation Oncology**

Available to a limited number of students showing particular interest in the subject.

**Fourth Year****Conferences**

Regular radiological conferences are presented by the Department of Radiology for the interns and residents. Such conferences are held throughout the college year. Cases currently active in the hospitals and clinics are presented and discussed. Student clerks are expected to be in attendance at such conferences. The department of radiology actively participates in other departmental conferences, thus furthering the exposure of the student to medical radiology.

**Electives**

Qualified students displaying particular interest in radiology may apply to the chairman of the Department of Radiology for additional study applicable to areas of special interest.

During the summer, a limited number of students may be received in the Department of Radiology for concentrated study in diagnostic and therapeutic radiology.

**Rehabilitation Medicine****Chairman and Professor**

Herbert Avart, D.O.

**Assistant Professor**

Cynthia Farrell, D.O.

Harris Ross, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Ronald Abraham, D.O.

Barry Bakst, D.O.

Jerry Dworkin, D.O.

Joseph K. Eshleman, D.O.

Sylvia Ferretti, D.O.

Lucretia Fitzpatrick, M.D.

Mitchell Freedman, D.O.

Burton Greenspun, D.O.



Stewart Hartman, D.O.  
Leonard Kamen, D.O.  
Patrick Murphy, D.O.  
David Rosenthal, D.O.  
Philip Stevens, D.O.

Michael N. Weinick, D.O.  
Edward K. Wikoff, M.D.  
David Young, D.O.  
Ross Zafonte, D.O.

## **Second Year**

### **Physical Medicine and Rehabilitation**

The didactic phase of the Physical Medicine and Rehabilitation educational component at Philadelphia College of Osteopathic Medicine consists of fourteen hours in the latter part of the second year of undergraduate training.

Course content at this level consists of a series of lectures and demonstrations designed to provide an adequate data base from which to integrate information from the basic osteopathic medical science curriculum with early development of expertise in diagnosis and management of deficits in disabilities.

## **Third Year**

### **Physical Medicine and Rehabilitation**

The Physical Medicine and Rehabilitation Clinical Rotation will serve to introduce and educate students in the art of functional assessment. An ambitious two week rotation takes advantage of the special expertise of Board Certified Physiatrists to inform, instruct, and supervise third year externs. Major clinical programs in neurology, orthopedics, rheumatology, amputee, and musculo-skeletal pain form the basis against which rotation educational goals and objectives have been formulated.

## **Surgery**

### **Chairman and Professor**

Nicholas C. Pedano, D.O., Department of Surgery and Division of General Surgery

### **Professors Emeriti**

Robert C. Erwin, D.O.  
Herman Kohn, D.O.  
Galen S. Young, D.O.

### **Professors**

Alexander Chernyk, D.O.  
Henry A. D'Alonzo, D.O.  
Leonard H. Finkelstein, D.O., Chairman, Division of Urologic Surgery  
Jerome A. Greenspan, D.O., Chairman, Division of Proctology  
Steven Katz, D.O.

Richard Kanoff, D.O., Chairman, Division of Neurosurgery  
 Sherman Leis, D.O., Chairman, Division of Plastic and Reconstructive Surgery  
 John J. McPhilemy, D.O., Chairman, Division of Orthopedic Surgery  
 Thomas F.A. Powell Sr., D.O.  
 Daniel L. Wisely, D.O., Dean  
 J. Brendan Wynne, D.O.

### **Associate Professors**

David Arsht, D.O.	Anthony Minissale, D.O.
Vivian Barsky, D.O.	Maxwell Stephanuk, D.O.
Conrad Fraider, D.O.	Ira Sachs, D.O.
Phillip Ginsberg, D.O.	Arthur Sesso, D.O.
Stanley Kolman, D.O.	Edward Silverman, D.O.
Samuel Manfrey, D.O.	Richard Wolf, M.D.

### **Associate Professors**

Jeffrey Alpern, D.O.	William Meis, D.O.
Mark D. Avart, D.O.	Philip Spinuzza, D.O.
Laurence Belkoff, D.O.	Steven Valentino, D.O.
Larry Cohen, D.O.	Perry Weiner, D.O.
William Henwood, D.O.	Roger Wong, D.O.
Todd Kelman, D.O.	

### **Instructor**

Lee Blatstein, D.O.  
 Ronald Ganelli, D.O.

The following faculty actively participate in our program of clinical education at off-campus sites:

Bernard Amster, D.O.	A.M. Cocco, M.D.
Edward Andersen, D.O.	George Constantino, M.D.
Mitchell Antin, D.O.	Frank D'Elia, M.D.
Norman Axelrod, D.O.	James R. DeSalvio, D.O.
Alfred Barlow, D.O.	Joseph DeVivo, D.O.
David L. Bashline, D.O.	Robert Driscoll, D.O.
Andrew Blackstone, D.O.	James Edmonston, D.O.
Jerome Bonier, D.O.	Anthony Elisco, M.D.
Domenic Bontempo Sr., D.O.	Alan Esper, D.O.
Domenic Bontempo Jr., D.O.	Ronald Esper, D.O.
William E. Brown, M.D.	Anthony J. Ferretti, D.O.
Harry Burger, D.O.	Scott Fried, D.O.
Joseph Cardinale, D.O.	Sylvia C. Frolick, M.D.
Daniel Carneval, D.O.	Robinson Fry, D.O.

William Giese, D.O.  
Muhammed Golsorkhi, M.D.  
Edward Gotfried, D.O.  
Robert Green, D.O.  
James Harris, D.O.  
Charles Hash, D.O.  
Drew Hecht, D.O.  
George Hendricks, D.O.  
Rex Herbert, D.O.  
Albert Heyman, D.O.  
George Hochreiter, D.O.  
Mark P. Holencik, D.O.  
B.S. Hoyt, D.O.  
Elias Isaac, D.O.  
Suryanaryanam Jairaj, M.D.  
Manoucher Jalali, M.D.  
William Johnson, D.O.  
John L. Johnston, D.O.  
J. Harris Joseph, D.O.  
Jay Joseph, D.O.  
Robert Kaneda, D.O.  
Gregory Keagy, D.O.  
Jeffrey A. Keyser, D.O.  
Seymour S. Kilstein, D.O.  
William Kliefoth, D.O.  
Stuart Kremer, D.O.  
Michael Krogulecki, D.O.  
L.T. Lim, M.D.  
A.D. Limkakeng, M.D.  
Clay C. Lindenmuth, D.O.  
Rafael Loscos, M.D.  
Steven Mandel, M.D.

Robert McCarrige, D.O.  
Dale R. McCormick, D.O.  
Michele L. Mikolajczak, D.O.  
James Miller, D.M.D.  
Michael Mitrick, D.O.  
Philip L. Mouer, D.O.  
Donald E. Myers, D.O.  
Dean A. Nachtigall, D.O.  
Willard Noyes, D.O.  
Sant Park, M.D.  
David S. Parker, D.O.  
Ronald W. Pearson, D.O.  
Addabada Rao, M.D.  
D.L. Rothman, D.O.  
Michael Schorr, D.O.  
G. Philip Scott, D.O.  
Robert C. Scott, D.O.  
Sheldon Sirota, D.O.  
Norman Stempler, D.O.  
Carol St. George, D.O.  
Anthony Steehler, D.O.  
Jacques L. Surer, D.O.  
Robert Swain, D.O.  
Eugenio A. Sybing, M.D.  
John Tedesco, D.O.  
Pat Toselli, D.O.  
William Vail, D.O.  
Gregory Vincent, M.D.  
Philip G. Vitelli, D.O.  
Brian L. Vitz, D.O.  
Dennis Zaslow, D.O.  
Bernard I. Zeliger, D.O.

## **Second Year**

### **Surgery I (Introduction)**

Basics and principles of surgery are presented by lecture and demonstration with the liberal use of audiovisual aids. Basic concepts and principles of osteopathic diagnosis as related to surgical procedures and treatment are emphasized in this course.

### **Surgery II (Orthopedics)**

The series of lectures and demonstrations present the basic fundamentals necessary for the student to master in order to make orthopedic diagnoses. The general field of orthopedic problems, as well as congenital malformations and

traumatic and acquired deformities are presented with emphasis on the more commonly encountered conditions. Part of the lecture series is designed to acquaint the student with the various types of trauma associated with the musculoskeletal system, and where possible, these lectures are accompanied by clinical presentations.

### **Surgery III (Urology)**

Basic fundamentals of genito-urinary diseases are given, including leading signs, symptoms and findings in genito-urinary diseases, as well as discussion of all diagnostic procedures. Diagnostic urologic workup, both in office and hospital, is discussed. Demonstration of urologic instruments is given. Lecture material consists of diseases, malformations and injuries of the penis, urethra, scrotum and scrotal contents, seminal vesicles, prostate and urethral and bladder disorder in the female.

Pediatric urology, stressing the most common problems encountered, is also discussed. Discussions include diagnosis and both conservative and surgical treatments. Lectures also discuss diseases, injuries and malformations of the urinary bladder, including acute and chronic infections, calculus disease, iatrogenic injuries, tumors of the urinary bladder, as well as their treatment; calculus disease of the kidneys and ureters; diseases, malformations and injuries of the kidneys and ureters; tumors and cysts of the kidneys and adrenal glands. Management of the urologic patient with indwelling catheter and urinary diversion is also given. Discussion of urologic aspects of medical renal disease. en, at times in conjunction with the department of medicine.

### **Surgery IV (General)**

Lectures and demonstrations dealing with an introduction to the surgical skills including sterile technique, suture technique, surgical diagnosis and pre-and post-operative care. Demonstrations of post-operative methods of diagnosis relative to palpation of related somatic components affecting organic changes are included in the surgical training of the student. Special osteopathic manipulative procedures pre-operatively and post-operatively affecting the convalescence of the patient are demonstrated at the bedside. An integrated systems approach is taken in part of the course, combining general surgery material with Pathology and Internal Medicine.

Lectures and conferences dealing with regional surgery, include the study of gross pathology, surgical diagnosis and differential diagnosis.

Neurosurgery, Proctology, and Plastic/Reconstructive Surgery are included in the course. Clinical lectures during the performance of various operations are presented with emphasis placed on diagnosis, treatment and follow-up.

### **Third and Fourth Years**

The hospital clerkship schedule involves a rotation through the clinics and the affiliated hospitals with instruction in the fundamentals of sterile technique in

the operating room, assisting at surgical procedures and pre- and post-operative care. Certification for graduation by the surgical department will require attendance upon group assignments, in the operating rooms, post-operative areas, emergency rooms and surgical clinics as assigned. Practical surgical experiences are obtained in these areas through lectures, demonstrations, conferences and actual participation under supervision.

Participation in the activities in the above areas provides the fourth-year student with excellent opportunities for correlating and rounding out surgical information and data gained in the first three years of pre-doctoral training. Conferences in the course of the out-patient department schedule develop recognition by the student of conditions suggesting surgical reference. Unusual cases of teaching value in surgery are constantly being reviewed in the clinics and hospitals. These cases serve as good material for grand rounds in the hospitals, which are under the direction of the senior surgeon in charge.

Conferences and lectures are conducted throughout the entire year in general and traumatic surgery for externs, interns and residents. The students are requested to prepare and present these teaching cases under the direction of an attending surgeon. Guest surgeons are invited to lecture to the surgical students from time to time during the year. This serves to give the student a wider scope of knowledge with diversification of opinion.

## **PCOM Alumni Association**

### **Officers for 1990**

President: Frederick R. Melhorn, D.O., '56, Richmond, VA  
President-Elect: Alexander E. Rodi, D.O., '58, Hammonton, NJ  
Past President: Louis W. Martini, D.O., '58, Upper Darby, PA  
Vice President: Francis J. Cinelli, D.O., '58, Bangor, PA  
Secretary: Robert S. Maurer, D.O., '62, Edison, NJ  
Treasurer: Galen S. Young, Sr., DO, '35, Drexel Hill, PA  
Executive Director: Hale T. Peffall, Jr., BS PCOM Administration

### **Board of Directors**

New England District  
Harrison R. Aldrich, DO, '61, Unity, ME  
A. Kenneth Ciongoli, DO, '68, Burlington, VT

### **New York District**

Joseph M. Pellettiere, DO, '48, Brooklyn, NY  
James P. Tierney, DO, '64, Maspeth, NY  
James E. Oxley, DO, '78, Campbell Hall, NY

**New Jersey District**

Michael Sutula, DO, '59, Union, NJ

John G. Costino, DO, '71, North Wildwood, NJ

William J. King, DO, '63, Woodbury, NJ

**Pennsylvania District**

A. Archie Feinstein, DO, '42, Springfield, PA

Carol Henwood-Dahdah, D.O., '83, Pottstown, PA

C. Glen Kramer, DO, '66, Quakertown, PA

John M. Ferretti, II, DO, '73, Erie, PA

William R. Henwood, DO, '76, Sharon, PA

Alfred R. D'Angelo, DO, '79, Red Lion, PA

George T. Zahorian, III, D.O., '75, Harrisburg, PA

**Middle Atlantic & Southern District**

John A. Cifala, DO, '45, Arlington, VA

Richard M. Couch, DO, '54, Seminole, FL

Vincent G.J. Lobo, DO, '65, Harrington, DE

**Middle West District**

Louis F. Amalfitano, DO, '54, Detroit, MI

Henry J. Coleman, DO, '72, Highland Park, MI

David A. Bitonte, DO, '80, Alliance OH

Pat C. DiTommaso, DO, '80, Girard, OH

**Far West District**

Richard S. Koch, DO, '38, Olympia, WA

Murray H. Cohen, DO, '58, Phoenix, AZ

**Military District**

James H. Black, DO, '62, FPO Coronado, CA

The Alumni Association was organized when the third class graduated from PCOM in 1902. Since then, the college has graduated nearly 7,700 physicians and our alumni practice in all 50 states and in nine foreign countries.

The Annual Alumni Reunion takes place at the college on the fourth weekend of January when Founders Day is celebrated. Along with many renewed friendships, alumni enjoy individual class reunions, professional postdoctoral programs featuring prominent alumni speakers and panelists, followed by the annual alumni dinner dance.

Among the association's purposes are the promotion of PCOM to prospective students and financial support for excellence in education. Contributions to the Annual Fund rose an unprecedented 19 percent last year, showing alumni appreciation for training received here and their continuing loyalty to the college.

Throughout the year the association sponsors programs that benefit its members and students of the college. Our Student Loan Fund gives financial aid to third and fourth year class members, and the International Neurology Fellowships enable students to do rotations in Europe and with the NIH in Washington, D.C. Favorites among alumni are the post-Founders Day CME in St. Thomas and the Colorado Ski CME. Seminars are also offered before the annual AOA Convention.

To bring news of the college to alumni, students, parents and friends, the association assists the Communications Department in publishing *Osteopathic Digest*, a quarterly magazine that has repeatedly won graphic and print awards. Bronze medallions are given to the 50th anniversary class. Many services are offered to active association members, such as group travel tours, insurance programs, and discount purchasing.

The new Alumni Athletic Field on campus, where our championship teams tear up the turf, was created through a generous gift of the association. Our Alumni Board of Directors meets semi-annually during Alumni Weekend and the June Commencement.

When students receive their DO degrees, they are welcome to join the association and show their medical college colors!

## Roster of Students

### Class of 1991

**Acocella, Michael A.**

Bloomfield, NJ  
B.A. Rutgers - The State University

**Albert, Joseph E.**

Reading, PA  
B.S. Villanova University

**Albright, Jr. Robert C.**

Manheim, PA  
B.S. Juniata College

**Andruscavage, Lisa A.**

Lancaster, NY  
B.S. State University of New York  
at Buffalo

**Arriviello, Jr. Richard T.**

Turnersville, NJ  
B.S. Saint Joseph's University

**Barone, Paul F.**

Ho-Ho-Kus, NJ  
B.S. Montclair State College

**Baseski, Theresa M.**

Wyoming, PA  
B.S. University of Scranton

**Battaglia, Daniel R.**

Philadelphia, PA  
B.A. University of Pennsylvania

**Bennett, Jeffrey E.**

Monroeville, PA  
B.A. Penn State University

**Betoni, James S.**

Warrington, PA  
B.S. Muhlenberg College

**Blackburn, Marianne**

Fort Washington, MD  
B.A. University of Maryland

**Blakeslee, Mark A.**

DuBois, PA  
B.S. Houghton College

**Blaustein, Brian S.**

Valley Stream, NY  
B.A. Adelphi University

**Bloch, Andrea J.**

Philadelphia, PA  
B.A. Muhlenberg College

**Borik, Anne**

Pittsburgh, PA  
B.S. Temple University

**Bove III, James D.**

Butler, NJ  
B.S. Muhlenberg College

**Boyer, Michael A.**

Reading, PA  
B.A. Gettysburg College

**Braun, Kurt W.**

Quakertown, PA  
B.S. Moravian College

**Brndjar, Jon E.**

Conyngham, PA  
B.S. Muhlenberg College

**Bunnell, O. Stephen**

Philadelphia, PA  
B.A. University of North Carolina  
at Chapel Hill

**Callahan III, Norman M.**

York, PA  
B.S. Ursinus College

**Capalongo, Dina F.**

Scranton, PA  
B.S. Duquesne University

**Carson, Jacqueline J.**

Waynesboro, PA  
B.S. Elizabethtown College



**Ciambotti, Jennifer A.**

Sharon, PA

B.S. University of Pittsburgh

**Clark, Jr. Robert M.**

Downingtown, PA

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**Michael Geoffrey Grill**

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**Margaret Ann Guest**

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**Mark Robert Harris**

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**David Elliot Harrison**

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**Deneen Michelle Hendrick**

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**Jon Richardson Henwood**

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**Ronald D. Herring**

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B.S., University of Pittsburgh

**David E. Hertzog**

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B.S., Delaware Valley College  
M.S., University of Denver

**Lawrence David Hochman**

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**Judith Lynn Holt**

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**Barbara Menni Juriga**

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of Pennsylvania

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**Thomas Michael Kilkenny**

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M.S., Seton Hall University

**Bruce Ian Kilstein**

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**Bernard Francis King**

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Woman's College  
M.S., Medical College of Virginia

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**Paul A. Kohut**

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**Rita Susan Koshinski**

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**James John Kosik**

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B.S., University of Scranton

**Lynne Marie Kraft**

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**Lawrence Allen Lesnak**

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**David Charles Lesseski**

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**Steven Lichtenstein**

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**Kevin John Lickfield**

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**Robert Lewis Lipshutz**

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B.S. in Pharm., Temple University  
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**Kenneth Alan Liss**

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**Paul Gregory Little**

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B.S., Touro College

**John William McGrath, Jr.**

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**Virginia Eva MacCabe Keeler**

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**Alison Elizabeth MacDonald**

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**Harry Thomas Madison**

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**Michael David Maggioncalda**

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Marine Academy

**Karen Pam Malamut**

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**Gerald Anthony Meis**

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B.S., Villanova University

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J.D., Villanova University

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**Joseph Michael Novi**

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**Robert Thomas O'Leary, Jr.**

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**Lisa Ann Pullum**

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**Kristen Rainear**

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**Dean A. Ruble**

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B.A., West Virginia University

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**Jeffrey Allyn Ruterbusch**

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University  
M.S., University of West Florida

**Shawn R. Ruth**

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B.S., Juniata College

**Howard Jay Sadinsky**

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B.S., Trinity College

**Pamela Teresa Salzmann**

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B.S., University of Scranton

**Lyndon Murray Schall**

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**Stephen Andrew Schillinger**

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**Henry Raymond Schuitema, Jr.**

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B.S., Suffolk University

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**Daniel Robert Smith**

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**Joseph Paul Stracci**

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**Patrice Lynn Taylor**

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**James Joseph Tayoun, Jr.**

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**Denise Lynn Telford**

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B.A., Gettysburg College

**John Joseph Tierney**

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**Adrienne Gail Tilbor**

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**David Anthony Travis**

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M.S., Columbia University

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**Kevin Charles Westra**

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B.A., Washington and Jefferson College

**Robert Wolfgang**

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B.A., State University  
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**Michael Glenn Wolford**

Berwick, PA  
B.A., Susquehanna University

**Andrew James Wren**

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**Stephen Jerome Yanoshak**

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**Patricia Rita Zambelli**

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B.S., The Pennsylvania State University

**James Joseph Zubernis**

Havertown, PA  
B.A., Temple University

## **Awards**

### **1990 RECIPIENTS**

#### **THE CHRISTIAN R. AND MARY F. LINDBACK FOUNDATION AWARD FOR DISTINGUISHED TEACHING**

This award by the trustees of the Christian R. and Mary F. Lindback Foundation is given in recognition of distinguished teaching by members of the faculty of Philadelphia College of Osteopathic Medicine:

Bruce Kornberg, D.O.  
Michael Mahalik, Ph.D.

#### **THE CHRISTIAN R. AND MARY F. LINDBACK FOUNDATION SCHOLARSHIP AWARDS**

These scholarships are awarded by the trustees of the Christian R. and Mary F. Lindback Foundation to students who are residents of the States of Delaware, Maryland, Pennsylvania or New Jersey who by their academic achievement, personal qualities and promise as osteopathic physicians are deemed worthy of this recognition:

Class of 1993  
Jeffrey M. Briglia   Jacob P. Burkhart

Class of 1992  
Michael J. Patney   Donna M. Fehrenbach

#### **THE DEAN'S AWARD**

To those members of the graduating class who by personal and professional conduct and by contributions to student affairs and to the general program of Philadelphia College of Osteopathic Medicine have been deemed worthy of special citation as recipients of the Dean's Award:

Jennifer Lynn Baskin  
Donald James  
Michael David Maggioncalda

**THE ALUMNI ASSOCIATION AWARD**

Awarded by the Alumni Association of the Philadelphia College of Osteopathic Medicine to that member of the graduating class who has been selected because of the high caliber of performance of professional duties in the hospital and outpatient services:

Christopher Robert Damico  
Lynne Marie Kraft

**THE JOHN H. EIMERBRINK, D.O., MEMORIAL AWARD**

Awarded to that member of the graduating class who in the opinion of the members of the department of osteopathic principles and practice has shown exceptional ability in the use of osteopathic philosophy and osteopathic manipulative therapy:

Paul A. Kohut

**THE DEAN ARTHUR M. FLACK AND BELLE B. FLACK  
MEMORIAL AWARD**

Awarded upon recommendation of the department of internal medicine to that member of the graduating class who has been selected as most proficient in the practice of internal medicine:

Arthur James McDermet

**THE WILBUR P. LUTZ, D.O. MEMORIAL AWARD**

Awarded upon recommendation of the department of internal medicine to that member of the graduating class who has been selected as the most proficient in physical diagnosis:

Marc Jeffrey Chernoff

**THE WILLIAM R. DAIBER, D.O. MEMORIAL AWARD**

Awarded to that member of the graduating class who has been selected on the basis of exceptional ability in the field of cardiology:

Emil Patrick Lesho

**THE FREDERIC H. BARTH MEMORIAL AWARD**

Awarded to that member of the graduating class who has been selected on the basis of excellence in the field of bronchopulmonary and upper respiratory disease:

Adrienne Elizabeth Apatoczky  
Michael Joseph Pisano, III

**THE KENNETH L. WHEELER, D.O. MEMORIAL AWARD**

Awarded to that member of the graduating class whose interests and achievements in didactic and clinical radiology studies have been of high order:

Jeffrey Allyn Ruterbusch

**THE HAROLD C. WADDEL, D.O. MEMORIAL AWARD**

This award is given to that member of the graduating class, upon recommendation of the staff of the department of obstetrics and gynecology, for exceptional competence in obstetrics and gynecology:

Margaret Ann Guest

**THE GALEN S. YOUNG, SR., D.O. AWARD**

Awarded upon recommendation of the department of surgery to that member of the graduating class who has shown exceptional interest and ability in the field of surgery:

Jon Richardson Henwood

**THE H. WILLARD STERRETT, D.O. AND  
H. WILLARD STERRETT, JR., D.O. MEMORIAL AWARD**

Awarded upon recommendation of the division of urology to that member of the graduating class who has been selected on the basis of proficiency in urology:

Andrew Paul Pecora

**THE JESSE M. YOUNG MEMORIAL AWARD**

Presented by the Auxiliary of the Osteopathic Medical Center of Philadelphia and awarded to that member of the graduating class for exceptional service to the community or to the college:

Theresa Marie Moore  
Howard Jay Sadinsky

**THE DR. THOMAS M. ROWLAND, JR., SCHOLAR-ATHLETE AWARD**

Awarded upon recommendation of a special committee of alumni, administration, faculty, and staff and representatives of athletic programs to that member of the graduating class who has shown academic excellence in basic and clinical sciences and who has participated in and contributed to one of the college's organized sports programs:

Alison Elizabeth MacDonald

**SIGMA ALPHA OMICRON**

A gold key and certificate are awarded to those graduates meeting the requirements of the Sigma Alpha Omicron Honorary Society. Election is based on maintenance of high scholarship in didactic work:

Glen Michael Bouchard  
John Anthony LaFata  
Daniel Robert Smith



**THE STUDENT COUNCIL MEMORIAL AWARD**

Presented by the Student Council of Philadelphia College of Osteopathic Medicine in memory of those students who passed away before graduating as osteopathic physicians: Homer Mackey, Lewis Rossman, D. Neil Grove, Richard F. Campo, Paul G. Moscato, Marianne C. Filipczyk, Peter McLaughlin, Jr., Clifford G. Dorf.

Awarded to that member of the graduating class who attained the highest scholastic average in didactic study:

Glen Michael Bouchard





**Philadelphia College of Osteopathic Medicine**  
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